







شبكة المعلومـــات الجامعية التوثيق الالكتروني والميكروفيا.



جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



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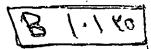
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نونه کا ۱۷ ایم

THYROID FUNCTIONS, SERUM ZINC AND CYTOGENETIC STUDY IN PATIENTS WITH TURNER AND KLINEFELTER

SYNDROMES

Thesis

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بسم الله الرحمن الرحيم

﴿قَالُوا سُبُحَاتُكُ لَاعِلَمُ لَنَا إِلَّا مَا عَلَمَ لَنَا إِلَّا مَا عَلَمَتنَا إِنَّكَ أَنْتَ الْعَلَيمُ الْحَكِيمُ ﴾

«صدرق الله العظيم» (سورة البقرة أيه رقم (٣٢) To my wife and my children

To the memory of my parents

Also to my patients

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CONTENTS

	Page
INTRODUCTION AND AIM OF THE WORK	1-2
REVIEW OF THE LITERATURE	
- Turner Syndrome	3
- Klinefelter Syndrome	16
- Thyroid Fuctions	22
- Serum Zinc	31
MATERIALS AND METHODS	36
RESULTS	49
DISCUSSION	124
SUMMARY AND CONCLUSION	139
REFERENCES	14 2
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LIST OF ABBREVIATIONS

AD Autosomal Dominant

AR Autosomal Recessive

ATP ase Adenosine Triphosphatase

DIT Diiodotyrosine

DNA Deoxyribonucleic Acid

EIA Enzyme Immunoassay

FSH Follicle Stimulating Hormone

GH Growth Hormone

Ht Height.

LH Lutenizing Hormone

MIT Monoiodotyrosine

mRNA Messenger Ribonucleic Acid

rT₃ Reverse Triiodothyronine

R Nase Ribonuclease

SD Standard Deviation

Sitt.ht. Sitting Height

SRIF Somatotropin Release Inhibiting Factor

TG Thyroglobulin

T₄ Thyroxine

T₃ Triiodothyronine

TBG Thyroxine Binding Globulin

TBPA Thyroxine Binding Prealbumin

TRH Thyrotropin- Releasing Hormone

TSH Thyroid Stimulating Hormone

Wt. Weight

XLD X-Linked Dominat

INTRODUCTION AND AIM OF THE WORK

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The association of thyroid disturbances with Turner syndrome has been described by many investigators, however, thyroid function was not completely studied in these reports (Laura et al., 1987).

The presence of thyroid disturbances in patients with Klinefelter syndrome was controversial (Gilles et al., 1987).

Serum Zinc status in patients with Turner and Klinefelter syndromes was not investigated before. Patients with Turner syndrome are short while patients with Klinefelter syndrome are tall. The role of Zinc in growth is well known and from this point of view serum Zinc status will be studied to find out if there is any relationship to Turner and Klinefelter syndromes.

Our aim of the present study is to search for an abnormality of thyroid function and serum Zinc in relation to different cytogenetic aberrations in patients with Turner and Klinefelter syndromes.

Review of Literature