



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكرو فيلم

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



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بالرسالة صفحات

لم ترد بالأصل

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

Thesis

Submitted For Partial Fulfilment Of
M.D. Degree in Pediatrics

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

﴿قَالُوا سُبْحَانَكَ لَا عِلْمَ لَنَا إِلَّا مَا
عَلَّمْتَنَا إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ﴾

«صدرق الله العظيم»
(سورة البقرة آية رقم ٢٢)

To my wife and my children

To the memory of my parents

Also to my patients

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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
rT ₃	Reverse Triiodothyronine
R Nase	Ribonuclease
SD	Standard Deviation
Sitt.ht.	Sitting Height
SRIF	Somatotropin Release Inhibiting Factor
TG	Thyroglobulin
T ₄	Thyroxine
T ₃	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**

INTRODUCTION AND AIM OF THE WORK

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