PREVALENCE OF AUTO IMMUNE THYROIDITIS AND CELIAC DISEASE IN TURNER SYNDROME

Thesis
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إنتشـار مـرض التهـاب الغـدة الدرقيـة المناعـى وحساسية المعى القمحى في متلازمة تيرنر

رسالة
توطئة للحصول على درجة الماجستير في
طب الأطفال

مقدمة من
الطبيب/ نادر عبدالرؤوف محمد الخولي
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SUMMARY

The present cross- sectional study was conducted on 30 patients with TS whose ages ranged from 0.43 to 25.49yrs, with a mean age of 15.728±5.48 years, attending the specialized Pediatric Endocrinology clinic, Children's hospital, Ain Shams University during the period from October 2009 to October 2010.

The aim of this study was to determine the prevalence of autoimmune thyroiditis and cleliac disease among patients with TS and its relation to karyotype and clinical manifestations.

All Patients were subjected to full medical history, full clinical examination, anthropometric measurements, Tanner pubertal staging, and measurement of Anti-TPO and anti- TG antibodies for autoimmune thyroiditis and anti-T.T.IgA antibodies for celiac disease.

The study showed that:

A. Out of 30 studied patients, 9 patients had positive anti-TPO (30%) and 3 had positive anti-TG (10%) and none of the cases had positive Anti- T.T.IgA antibodies. Out of the 9 cases with positive Anti-


قَالُوا سُبْحَانَكَ
لاَ عِلْمَ لَنَا
إِلاَّ مَا عَلَّمْتَنَا
إِنَّكَ أَنتَ
الْعَلِيمُ الْحَكِيمُ
صدق الله العظيم
سورة البقرة الآية
(٣٢)

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AGA	Antigiiadin antibodies
IgG	Immunoglobulin G
ALS	Acid-labile subunit
Anti-GAD	Anti-glutamic acid decarboxylase
ATTDs	Autoimmune thyroid diseases
BMD	Bone mineral density
CD	Celiac diases
CNS	Central nervous system
CSF	Cerebrospinal fluids
CTLA-4	Cytotoxic T lymphocyte-associated protein-4
CV	Cardiovascular
DIAPH2	The diaphanous gene
ECG	Electrocardiography
ELISA	Enzyme linked immunosorbant assay
EMA	Endomysial antibody
ERT	Estrogen repalcement therapy
ESPGAN	European society of pediatric gastro-enterology and nutrition
FHA	Final adult heights
FISH	Fluorescence in situ hybridization
FoXP3	Forkhead/winged helix transcription factor
FSH	Follicular stimulating hormone
FSS	Familial short stature
FT4	Free thyroxine

GFD	Gluten free diet
GH	Growth hormone
GHD	Growth hormone deficiency
GHR	Growth hormone receptor
Hb	Hemoglobin
hGH	Human growth hormone
HLA	Human leucocytic antigen
HPF	High power field
HRQol	Health related quality of life
HRT	Hormonal replacement therapy
HT	Hashimoto's thyroiditis
IBD	Inflammatory bowel disease
IDDM	Insulin dependent diabetes mellitus
IEL	Intraepithelial lymphocyte
Ig	Immunoglobulin
IgA	Immunoglobulin A
IGF	Isulin like growth factor
IGFBP	IGF biodning protein
IGT	Impaired glucose itolecrance
IQ	Intelligence qaution
ISS	Idiopathic short stature
LH	luteinizing hormone
L-T4	L-thyroixine
MAS	Malabsorption syndrome
Mb	Megabases
MHC	Major histocompatibility complex

MRI	Magnetic resonance imaging
NIH	National institute of health
OGTT	Oral glucose tolerance test
PAH	Projected adult height
PAR1	Pseudoautosomal region 1
PAR2	Pseudoautosomal region 2
PAS	Para-aminosalicylic acid
POF	Premature ovarian failure gene
PTC	Papillary thyroid carcinoma
RR	Relative risk
SCH	Subclinical hypothyroidism
SD	Standard deviation
SDS	Standard deviation score
SGPT	Serum Glutamate pyruvate transminase
SHOX	Short stature homeobox gene
T2DM	Type 2 diabetes mellitus
Tc	T-celss
TG	Thyroglobulin antibody
TH	Thyroid hormone
TNF-α	Tumor necrosis factor α
TPO Ab	Thyroperoxidase antibody
T-regs	Regulatory T-cells
TS	Turner syndrome
TSH	Thyroid stimulating hormone
tTG	Tissue transglutaminase
VNTR	Variable number of tandem repeat