



Evaluation of Testicular Functions in Obese Adolescent Males

Thesis

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List of Abbreviations

ACTH	: Adrenocorticotrophic hormone
ATF6	: Activating transcription factor 6
ACTR II	: Activin receptor type II
ADA	: American Diabetes Association
ALMS	: Alstrom syndrome
AMH	: Antimulleran hormone
AR	: Androgen Receptor
ARC	: Arcuate nucleus
BED	: Binge eating disorders
BF	: Body fat
BMI	: Body Mass Index
CAH	: Congenital adrenal hyperplasia
CDC	: Center for Disease Control
CDGP	: Constitutional delay of growth and puberty
DEMPU	: Diabetes Endocrine and Metabolism Pediatric Unit
DEXA	: Dual-energy X-ray absorptiometry
DNPCNCD	: Diet, Nutrition and Prevention of Chronic non communicable diseases
ECLIA	: Electrochemiluminescence
ER	: Endoplasmic reticulum
FMPP	: Familial male- limited precocious puberty
FSH	: Follicle stimulating hormone
FXS	: Fragile X syndrome
GH	: Growth hormone

GHS-R	: Growth hormone secretagogue receptor
GnRH	: Gonadotropin releasing hormone
HBSC	: Health behavior in School-Aged Children
HCG	: Human chorionic gonadotropins
HDL	: High density lipoprotein
HOMA	: Homeostasis Model Assessment
HPG axis	: Hypothalamic pituitary gonadal axis
Hy ob	: Hypothalamic obesity
IGF-I	: insulin-like growth factor-I
INHB	: Human inhibin B
INSL-3	: Insulin growth factor 3
LDL	: Low density lipoprotein
LEP	: Leptin
LEPR	: Leptin receptor
LH	: Luteinizing hormone
MAS	: McCune-Albright Syndrome
MC4R	: Melanocortine 4 receptor
MS	: Metabolic syndrome
MSH	: Melanocyte- stimulating hormone
mTOR	: Mammalian target of rapamycin
NAFLD	: Non-Alcoholic fatty liver disease
NASH	: Non-Alcoholic steatohepatitis
NKB	: Neurokinin B
PCOS	: Polycystic ovarian syndrome
PHV	: Peak height velocity

PMv	: ventral premammillary nucleus
POMC	: Proopiomelanocortin gene
PWP	: Prader–Willi phenotype
SCFE	: Slipped capital femoral epiphysis
SHBG	: Sex hormone binding globulin
T2D	: Type 2 diabetes
TSH	: Thyroid-stimulating hormone
UPR	: unfolded protein response
WC	: Waist circumference
WHO	: World Health Organization

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