

GLAND	HORMONE	NORMAL EFFECT OF HORMONE	HYPERSECRETION CAUSES	HYPOSECRETION CAUSES
ANTERIOR PITUITARY	GH = Growth Hormone	Growth of bone & muscle	CHILD: GIANTISM ADULT: DEVELOP LG. HAND+FEET	CHILD: DWARFISM
	TSH = Thyroid Stimulating Hormone	STIMULATES THYROID TO SECRETE THYROXIN		
	ACTH =	STIMULATES ADRENAL		
	PROLACTIN	STIMULATES PRODUCTION OF MILK		
	FSH =	STIMULATES DEVELOPMENT OF OVARIES or SPERM IN GONAD		
	LH =	♀ corpus luteum development FROM OVULATION ♂ secretion of testosterone		
POSTERIOR PITUITARY	OXYTOCIN	STIMULATES CONTRACTION OF UTERUS AT CHILD BIRTH		
	VASOPRESSIN	STIMULATES KIDNEY TO REABSORB H ₂ O		
THYROID	THYROXIN	INCREASES METABOLISM	EYE BULGE: IRITABLE <u>GOITER</u>	KIDS: CRETINISM - OUT OF PROPORTION ADULT: WT GAIN, SLOW DOWN
ISLANDS OF LANGERHANS	INSULIN (BETA CELL)	STIMULATES GLUCOSE "USE" + STORAGE	DIABETIC SHOCK	DIABETES: HIGH BLOOD SUGAR
	GLUCAGON (ALPHA)	STIMULATES BREAKDOWN OF GLYCOGEN TO GLUCOSE		
ADRENAL MEDULLA	ADRENALINE/EPINEPHRINE	inc. heart rate STIMULATES GLYCOGEN → GLUCOSE	"EMERGENCY RESPONSE" "FIGHT OR FLIGHT"	
	NORADRENALINE/NOREPINEPHRINE	blood vessel constrictions		
ADRENAL CORTEX	ANDROGENS	SM. AMTS. OF SEX HORMONES		
	ANTI-INFLAMMATORY STEROID (CORTISOL)	① MINERAL BALANCE	CUSHING'S DISEASE ↳ "FATY DEPOSITS"	ADDISON'S DISEASE ↳ "WT LOSS"
	STEROID (ALDOSTERONE)	② METABOLISM OF PROTEIN, FAT, CARBO		
PARATHYROID	PARATHORMONE	Ca ⁺⁺ METABOLISM	STORAGE/RELEASE from bone	TETANY - VIOLENT MUSCLE CONTRACTIONS
THYMUS	THYMOSSIN	CHILDHOOD → LYMPHOCTE PRODUCTION: IMMUNITY ADULT → NONE		

PINEAL BODY	MELATONIN	SEXUAL DEVELOP in human ♂ → ?		
HYPOTHALMUS	RELEASING HORMONES	STIMULATES PITUITARY		
OVARIES	ESTROGEN/PROGESTERONE	♀ 2 ND SEX CHARACTERISTIC M. CYCLE		
TESTES	TESTOSTERONE	♂ 2 ND SEX CHARACTER		
STOMACH	GASTRIN	STIMULATES production of gastric juices		
SM INTESTINE	SECRETIN	STIMULATES production of pancreatic juice		