

Endocrine Disorders Cheat Sheet by aglevines via cheatography.com/144882/cs/31143/

Hormones	
Hypothalamus	releasing and inhibiting factors
Pituitary Gland - anterior lobe	GH, TSH, ACTH, FSH, LH, Prolactin
Pituitary Gland - posterior lobe	ADH (vasopressin), oxytocin
Thyroid Gland	T3, t4, calcitonin
Adrenal Gland - medulla	epinephrine, norepinephrine
Adrenal Gland - cortex	glucocorticoids, mineralocorticoids, sex hormones
Gonads	testes = testosterone // ovaries =estrogen, progesterone
Pancreas	insulin, glucagon, somatostatin, PP (including gastrin)
Parathyroid Glands	parathyroid hormone

Hypothalamic Hormones // Pituitary Hormones	
CRH	increase ACTH
GnRH	increase FSH and LH
PIH	decrease prolactin
GHRH	increase GH
GHIH	decrease GH
TRH	increase TSH

Pituitary Hormones	
GH	promotes tissue growth, increase bone, muscle and fat
TSH	promotes production and secretion of T3 & T4 in thyroid
ACTH	promotes secretion of glucocorticoids in adrenal cortex
FSH & LH	the gonadotropic hormones - promotes gamete production and sex hormones secretion in gonads
Prolactin	stimulates milk production in mammary glands
ADH	controls thirst and amount of urine produced by kidneys
oxytocin	stimulates uterine contractions in women and acts on mammary glands to release milk
pituitary gland functions with a feedback loop	

Thyroid Disorders		
Goiter	thyroid enlargement; causes = puberty/pregnancy, iodine deficiency (endemic goiter), hashimotos thyroiditis, goitrogens (food that suppress production of thyroid hormones)	
Hyperthyr- oidism	Thyrotoxicosis, increased T3 & T4, decreased TSH	
Hypoth- yroidism	Myxedema, decreased t3 & T4, increased TSH (primary)	
Hyperthyr- oidism results in	generalized increase in metabolic rate, heat intole- rance, sweating, irritability, weight loss, increased appetite, exopthalmia, lid lag, tremor, hyperpigment- ation, friable/fine hair, tachycardia, thyroid storm	
hypoth- yroidism results in	fatigue, depression, cold intolerance, dry skin, decreased intellectual function slow HR, constipation, enlarged tongue (macroglossia), malocclusion, gingivitis, rampant decay, candidiasis	
Graves Disease	Hyperthyroidism, autoimmune disease; dx = TSI, elevated T3/T4 but low TSH, diffuse radioactive iodine uptake (thyroid scan)	
Graves disease clinical features - triad	thyrotoxicosis, infiltrative opthalmopathy, localized dermopathy	
thyroid storm	abrupt onset of hyperthyroidism; when exposed to stress or have graves disease; can lead to uncontrolled heart arrhythmias, pulmonary edema, CHF> coma > death	
childhood oral manife- station of thyroid storm	premature loss of primary teeth and early eruption of permanent	



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Thyroid Dis	orders (cont)	Pituitary Diso	rders (cont)	
primary hyperthyr- oidism secondary hyperthyr- oidism	diffuse toxic goiter or tumor; serum levels show INCREASED T3/T4, BUT DECREASED TSH TSH-producing pit. tumor; serum levels show INCREASED T3/T4 AND INCREASED TSH	Sheehan Syndrome	postpartum necrosis/postpartum hypopituitarism; hypertrophy/plasia of lactotrophs; results in enlargement of ant. pit. lobe; symptoms: agalactorrhea, amenorrhea, hot flashes, decreased libido; has features of both hypopituitarism (fatigue, intolerance to cold, constipation, weight gain, hair loss, low BP	
Cretinism	congenital hypothyroidism; symptoms = coarse/dry skin, puffy, pale lips, impaired development of skeletal and CNS (results in dwarfism and mental retardation); oral manifestations = macroglossia, mouth breathing, underdeveloped mandible, overdeveloped maxilla, late eruption, enamel hypoplasia		and adrenal insufficiency (similar to addisons)	
		Craniopha- ryngioma	rare, benign tumor in children; develops from remnants of Rathke's pouch; a tumor mimicking the enamel organ of embryonic tooth	
		Bitemporal Hemianopia	bilateral loss of outer/peripheral visual fields, tunnel vision	
Juvenile	primary hypothyroidism in children; mental sluggi-	Pituitary Ade	Pituitary Adenomas:	
Hypoth- yroidism	shness, dragging, cold intolerance, obesity, consti- pation	Prolac- tinoma	most common type of functional adenoma; hyperpolactinemia; clincally- amenorrhea, galactorrhea, loss	
Hashim-	primary hypothyroidism; characterized by lymphoid		of libido, infertility	
oto's Thyroiditis	infiltrated and Hurthle cells	Giantism	GH adenoma - BEFORE closure of epihyses; juvenile generalized increased body size with disproportioned	
primary vs.	vs. DECREASED TSH secondary hypoth-		limbs, CV problems; dx= elevated GH levels and CT positive pit tumor	
secondary hypoth- yroidism			GH adenoma - AFTER closure of epiphyes; adult, coarse skin, enlargement of visceral organs, increase in facial bones (prognathism, flaring of teeth), CV problems, diabetes mellitus, hypertension, arthritis; dx= elevated GH levels and failure to suppress GH by oral load of glucose	
function of T3 & T4 = physical and brain growth and maturation, help oxygen consumption, elevated basal metabolic rate, increases body heat, upregulates metabolism, protein synthesis				
function of calcitonin = helps Ca2+ absorption by bone and inhibit osteoclast resorption		ACTH-p- roducing adenoma	thyrotrophs; results in hyperthyroidism	
low levels of circulation T3 & T4> no negative feedback to ant. pit> increase TSH> trophic effect on thyroid gland> GOITER		pan-hypopituitarism:		
		diminished GH	failure of growth> Dwarfism	
Pituitary Dis		diminished TSH	hypothyroidism	
	leficiency in one or multiple hormones; can result from nschemic injury or non-functional pituitary neoplasms	diminished	failure of sexual maturity and fuunction (amenorrea,	



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Hyperp

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carcinoma)

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excessive secretion of hormones (adenoma, hyperplasia,

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LH/FSH

ACTH

diminished

infertility)

Addison's Disease

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Pituitary Disorders (cont)

diminished ADH diabetes insipidus (excessive thirst and urination)

Adrenal Gla	nd Disorders
Hypera- drenalism	excess cortisol production
Hypoad- renalism	decreased cortisol production??
Cushing Syndrome	hyperadrenalism; ACTH-producing pituitary adenoma (60% of cases); clinical = weight gain, truncal obesity, hypertension, thinning skin, flushing of face, purple striae, easy bruising, hirsutism (excess hair), acne, osteoporosis, buffalo hump, moon faces, muscle weakness
Hypera- Idoste- ronism	??
Addison's Disease	chronic adrenocortical insufficiency; reduction/lack of cortisol and aldosterone; excess ACTH?; symptoms = tiredness, lack of energy, weight loss, GI disturbances, hypoglycemia, hyperpigmentation (bronzing), susceptible to infection
primary vs secondary Addisons disease	primary = reduction/lack of cortisol and aldosterone // secondary = due to deficiency of ACTH (hypothalami- c/pituitary dysfunction)
Waterh- ouse-Frid- erichsen syndrome	caused by overwhelming sepsis due to bacterial infection, usually Neisseria meningitidis; symptoms = rapid hypotension leading to shock, DIC, wide spread purpura on skin, acute and rapid adrenocortical insufficiency
Adrenal Crisis	hypotension, weakness, collapse, N/V, headache, fever; tx = hydrocortisone

Adrenal Gland Disorders (cont

Pheoch- tumor of adrenal medulla; catecholamines-producing
rom- tumor arising from medullary paraganglionic cells
ocytoma (chromophine cells); clinical = epinephrine increase HR
and force of contraction, relaxation of bronchiolar smooth
muscle and glycogenolysis

Endocrine I	Pancreas	Disorders
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Endocrine Par	ncreas Disorders
Gastrinoma	gastrin-producing tumor in pyloric antrum and duodenum
Glucagnoma	glucagon-producing tumor (ultra cells)
Insulinoma	insulin-producing tumor (beta cells)
Somatosta- tinoma	somatostatin-producing tumor (delta cells)
Zollinger-El- lison syndrome	1 or more gastrinoma in duodenum; results in excess HCL production, leading to frequent peptic ulcers and hyperplasia of gastric mucosa
islets of langerhans (pancreas)	glucagon, insulin, somatostatin, PP cells, gherlin (epsilon cells)



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