

Thyroid Issues Cheat Sheet

by Nandrews via cheatography.com/177003/cs/36971/

Pathophysiology:

Negative Feedback Loop (ex. correction of a thermostat) activated by a disturbance in homeostasis.

Thyroid Gland

T3- Triiodothyronine

T4- Thyroxine

Purpose:

- 1. Metabolic Process (burn calories)
- 2. Cellular replacement
- 3. Digestion
- 4. Sympathetic Stimulation
- 5. Regulate T & HR
- 6. Brain Function

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Causes	Graves Disease, Toxic		
	Modular Goiter, Exogenous		
	Hyperthyroidism (taking to		
	much thyroid med), Thyroi-		
	ditis, Excessive Iodine		
	consumption		

S/S Anxiety, increased HR, weight loss, restlessness, jittery, heat intolerance, palpitations, insomnia, increased systolic BP, hands tremor, hyperactive reflexes, possible goiter

Graves Disease Autoimmune, genetic component, production of TSI, TSI mimics TSH = increased thyroid hormone production

S/S: Exophthalmos, pretibial myxedema

Treatments

Anti-thyroid Medications (Stop T3 & T4 production)-Methimazole, PTU

Hyperthyroidism "Fight or Flight" (cont)

Supportive- Beta Blockers
Glucocorticoids- inflammation/swelling
RAI- destroys thyroid tissue
Thyroidectomy- total or partial
Potassium Iodine- blocks uptake of iodine

Nursing Interventions Monitor heart, VS, I&O. Improve nutritional status, enhanced coped measures (quiet cool room), regulate temperature, monitor for thyroid storm

Must have tracheostomy tray/oxygen/suction/calcium gluconate after thyroidectomy!

Thyroid Storm

Treatment:

	Life-Threatening	
Causes:	Excessive thyroid hormone	
	release. Often with infection,	
	trauma, DKA, pregnancy,	
	surgery, or deep palpitation	
S/S:	fever, tachycardia, HTN,	
	abdominal pain, sweating,	

death

Maintain ventilation, temp,
safety, seizure precautions,

anxiety, seizures, coma,

bed in low position, cool room, suction

Hypothyroidism "Rest & Digest"

Causes: Hashimotos Thyroiditis, glucocorticoids, thyroid cancer, pituitary tumors, decreased ingestion of iodine, treatment of hyperthyroidism

Increased TSH= Decreased

T3 & T4

Decreased TSH = Increased

T3 & T4

S/S: Slow, fatigue, weakness, constipation, cold intolerance, fertility issues, low HR/RR/T,

weight gain, depression

Treatment: Lifelong meds (ex.synthroid)

on an empty stomach, don't take w/in 4 hours of GI meds (specifically calcium)

Hypothyroidism Myxedema Coma

Causes: Abrupt stopping of thyroid replacement medication

Post thyroidectomy

S/S: Early signs- depression,

diminished cognitive status, lethargy, somnolence

Advancing signs: respiratory depression, coma, narcosis, hyponatremia, hypoglycemia, hypotension, bradycardia, and

hypothermia

Treatment: REPLACE THYROID

HORMONE

Avoid sedatives and opioids



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