Cheatography

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

Hyperthyroidism "Fight or Flight"

		-
Causes	Graves Disease, Toxic Modular Goiter, Exogenous Hyperthyroidism (taking to much thyroid med), Thyroi- ditis, Excessive lodine consumption	Thyro
S/S	Anxiety, increased HR, weight loss, restlessness, jittery, heat intolerance, palpitations, insomnia, increased systolic BP, hands tremor, hyperactive reflexes, possible goiter	S/S:
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	

By Nandrews

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Hyperthyroidism "Fight or Flight" (cont)

	Supportive- Beta Blockers
	Glucocorticoids- inflammat- ion/swelling
	RAI- destroys thyroid tissue
	Thyroidectomy- total or partial
	Potassium lodine- blocks uptake of iodine
Nursing Interv- entions	Monitor heart, VS, I&O. Improve nutritional status, enhanced coped measures (quiet cool room), regulate temperature, monitor for thyroid storm
	Must have tracheostomy tray/o- xygen/suction/calcium gluconate after thyroidectomy!

Thyroid Storm		
	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, anxiety, seizures, coma, death	
Treatment:	Maintain ventilation, temp, safety, seizure precautions, 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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