

- Dysmorphogenesis
- Autoimmune gland destruction (Hashimoto thyroiditis)
- Iodine deficiency

SECONDARY AND TERTIARY CAUSES

- Anterior pituitary failure: Lack of TSH
- Hypothalamus failure: Lack of TRH

CRETINISM

- Thyroid deficiency from birth
- Stunting of linear growth: **Dwarfism**
- Mental and physical growth are retarded.
- **Puffy face, pot belly and large tongue**
- **A coarse cry, you can recognize them as they are born.**

HYPERTHYROIDISM / THYROTOXICOSIS

- Increase of free T3 and T4 level in blood
- compare with normal levels Causes:
- **Grave's disease** – Autoimmune condition; Auto antibodies stimulate TSH receptors and antibodies acts like TSH
- Toxic adenoma of thyroid gland
- TSH secreting tumor in hypothalamus

	Hypothyroidism	Hyperthyroidism
General	<ul style="list-style-type: none"> • Decreased BMR / Lethargy • Low heat production / Cold • intolerance Weight gain 	<ul style="list-style-type: none"> • Increased BMR Excess • heat production • Weight loss
GIT	<ul style="list-style-type: none"> • Decreased appetite • Slow gut motility: constipation • Decrease glucose reabsorption 	<ul style="list-style-type: none"> • Increased appetite