**Thyroid**

Functions

Produces thyroid hormones [thyroxine (T4), triiodothyronine (T3)].

Produces calcitonin which regulate serum calcium.

**Diseases:**

**Hypothyroidism-Under Activity**:

Prevalence

* + Affects 5-17% of population
  + Females> Males
  + Higher in >60 years old
* **Fatigue**
* **Weakness**
* **Weight gain or increased difficulty losing weight**
* **Coarse, dry hair**
* **Dry, rough pale skin**
* **Hair loss**
* **Coldness**
* **Muscle cramps and frequent muscle aches**
* **Constipation**
* high TSH indicates law thyroid hormone

**Hyperthyroidism**- Over activityالغدة الشديدة الفعاليه

Prevalence

Affect 5-17% of population

Females> Males

More common in younger persons

**Hyperthyroidism-Symptoms**:

Weight loss Tachycardia Bulging eyesانتفاخ العينين Nervous/Anxiousالعصبية

Insomniaالارق Intolerant of heatعدم تحمل الحر Goiterتضخم الغدة الدرقية

**Labs:**

Low TSHالهورمون المحفز للغدة الدرقية indicates high thyroid hormone = hyper