



جامعة المستقبل
قسم تقنيات البصريات

مشاكل العين بالامراض الباطنية و العصبية

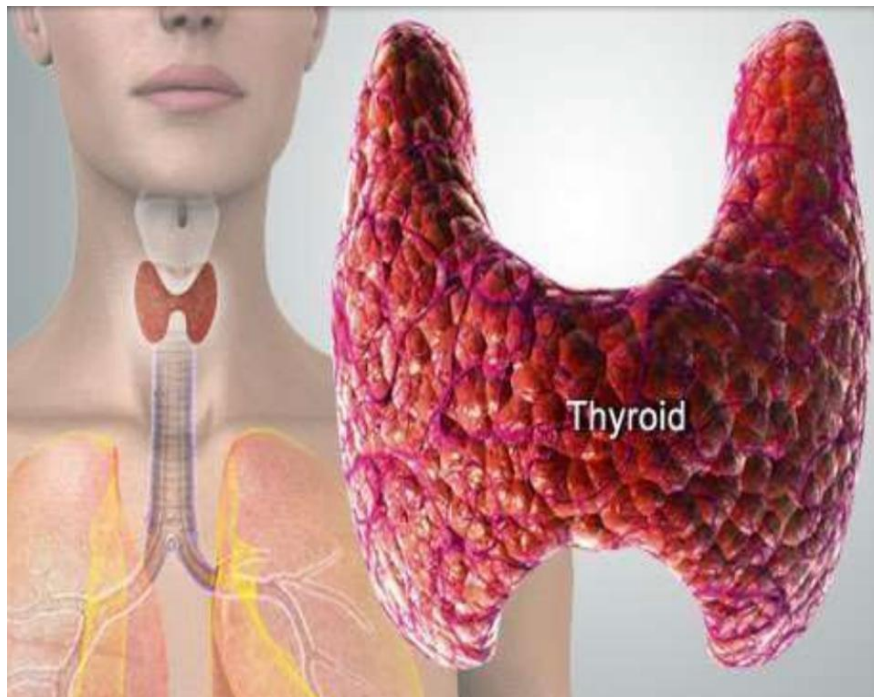
Thyroid disorders

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Thyroid disorders

- The thyroid gland is located in front of the neck.
- It has right and left lobes that confer a butterfly- shaped appearance.
- The hormones produced by this gland control the body's metabolism.
- Disorders that affect thyroid function can either speed up or slow down metabolic processes

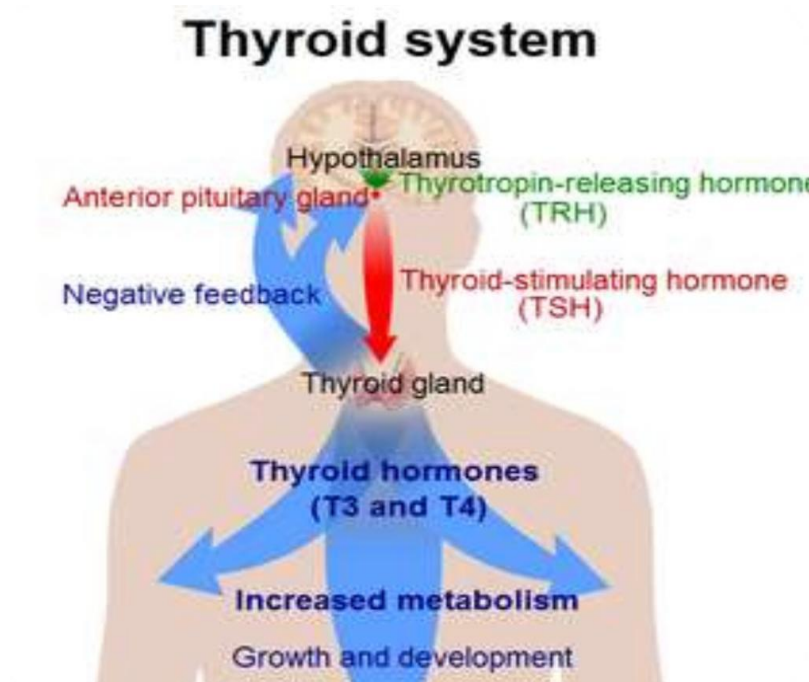


- **Function of Thyroid gland:**

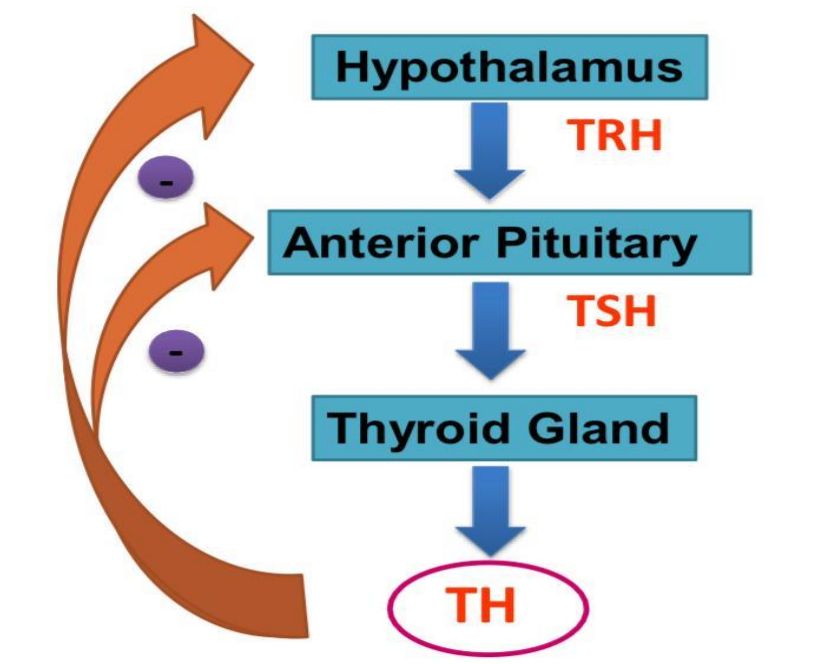
Secretes 3 main hormones:

- Thyroxine (T4)
- Triiodothyronine (T3) **Energy & Growth**
- Calcitonin Control of calcium

- **Regulation of Thyroid hormones (TH)**



- **Regulation of TH secretion:**



- Actions of thyroid hormone

- Regulation of carbohydrate
- Lipid and protein metabolism
- Central nervous system activity and brain development
- Cardiovascular stimulation
- Bone and tissue growth and development
- Gastrointestinal regulation
- Sexual maturation

- Classification of thyroid disorder

1- Hormonal disorder:

- Hypothyroidism
- Hyperthyroidism

2- Tumors: as thyroid cancer.

3- Drug induced: as amiodarone and interferon.