THYROID GLAND

Physical examination

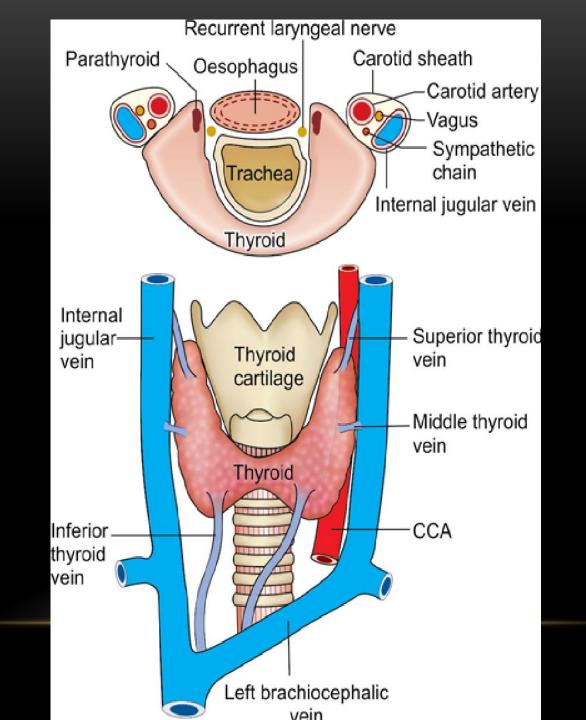
Dr. Adel M. Alrekabi

It is located in the anterior triangle of the neck. It weighs about 20 grams **Blood supply**

- 1-Superior thyroid artery is first anterior branch of external carotid artery enters the gland near superior pole as a larger anterior superficial branch and a smaller posterior branch.
- 2-Inferior thyroid artery, a branch of thyrocervical trunk of subclavian artery passes behind the carotid sheath running medially reaching the posterolateral aspect of the gland.
- 3-Thyroidea ima artery, a branch of aorta or brachiocephalic artery enters the isthmus or lower pole of one of the lateral lobes (10%).
- 4-Tracheal and oesophageal branches serve blood supply to retained thyroid gland after thyroidectomy.

Important Relations of Thyroid Gland

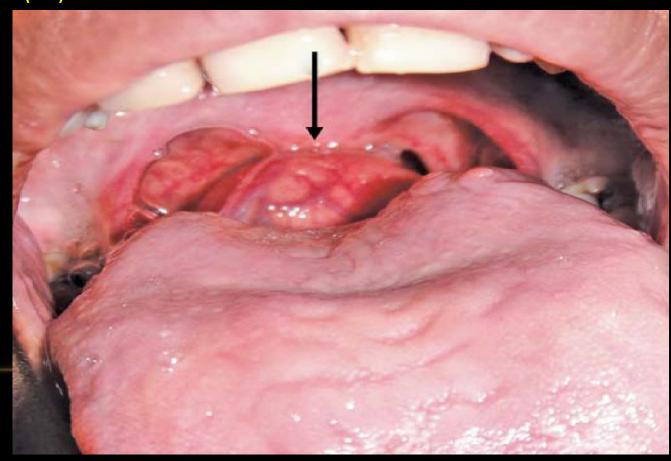
- 1-Recurrent laryngeal nerve lies in the tracheo oesophageal groove, in relation to Berry's ligament.
- 2-Superior laryngeal nerve which gives a branch, external laryngeal nerve supplies cricothyroid muscle. It accompanies superior thyroid artery.
- 3-Parathyroid glands—four in number, two on each side embedded in thyroid



Lingual Thyroid

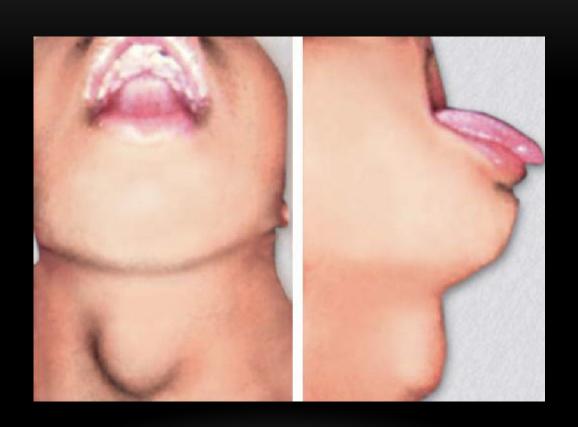
It is a thyroid swelling in the posterior third of tongue, at the foramen caecum, presenting as rounded swelling. It may be the only existing thyroid tissue which may cause:

- a. Dysphagia, pain, speech impairment.
- b. Respiratory obstruction, haemorrhage.
- c. 70% present as hypothyroidism, 10% as cretin.
- d. Common in females (3:1).

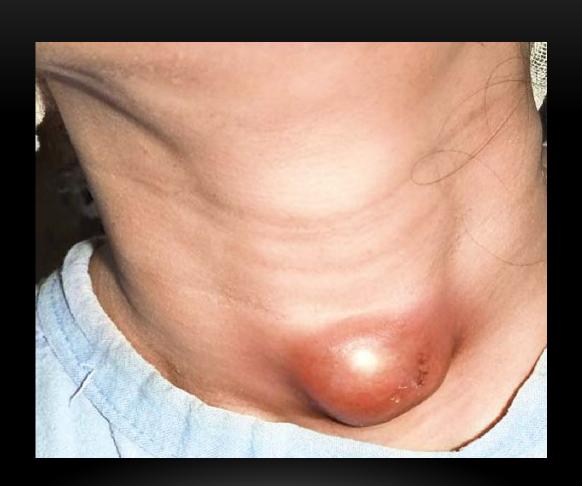


Thyroglossal Cyst

- Thyroglossal cyst is a swelling occurring in the neck in any part along the line of thyroglossal tract.
- Possible sites for thyroglossal cyst
- a. Beneath the foramen caecum
- b. In the fl oor of mouth
- c. Suprahyoid
- d. Subhyoid—commonest site
- e. On the thyroid cartilage—2nd common site
- Clinical examination:-
- a. Swelling in the midline, towards the left
- b. Moves with deglutition as well as with the protrusion of tongue. Patient is asked to open the mouth and keep the lower jaw still. Examiner holds the cyst between the thumb and forefinger. When the patient is asked to protrude the tongue, a "tugging sensation" can be felt.





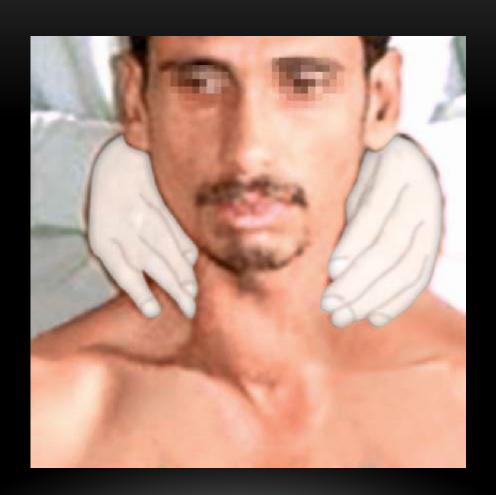


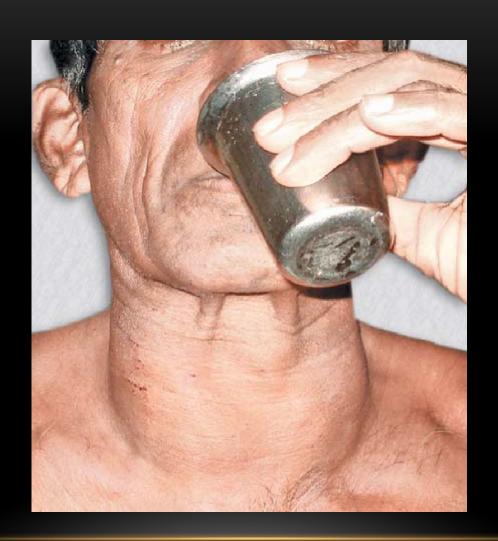
Examination of the thyroid gland

- 1-inspection
- 2-papation
- **3-percussion**
- 4-auscultation



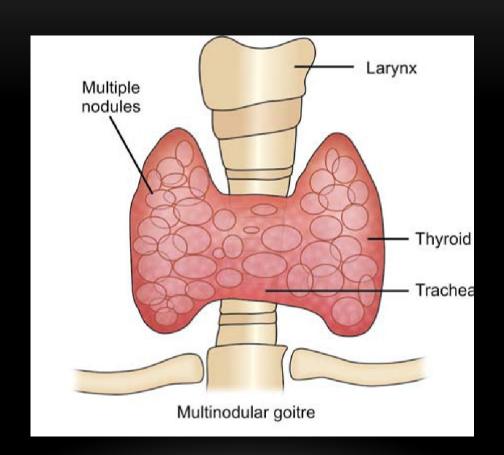
Examination of the thyroid gland from behind for any nodules. Thyroid enlargement in male is rare. Nodule in a male could be malignant.

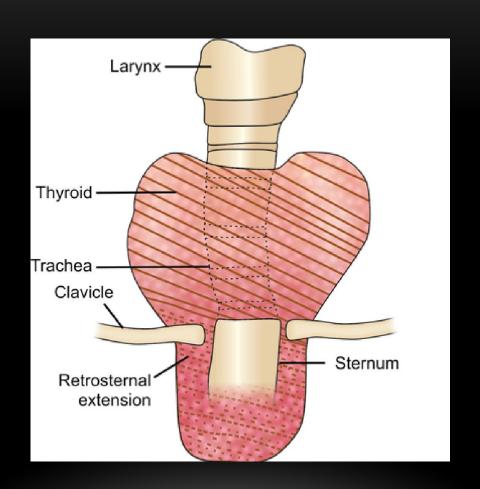




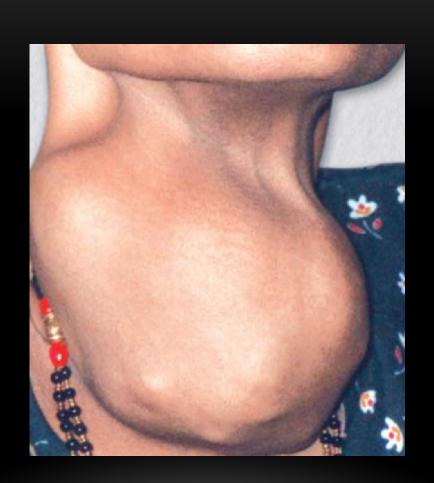
Pendred syndrome: dyshormonegenesis with deafness

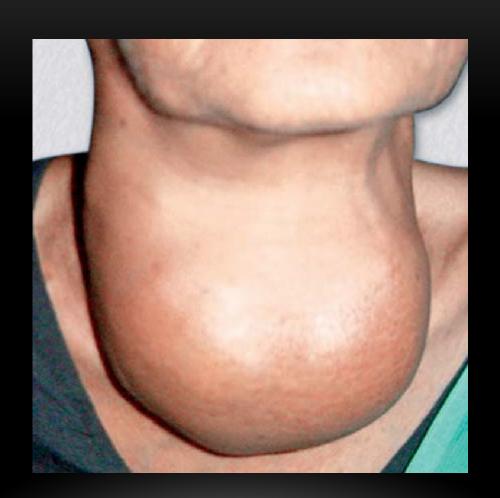


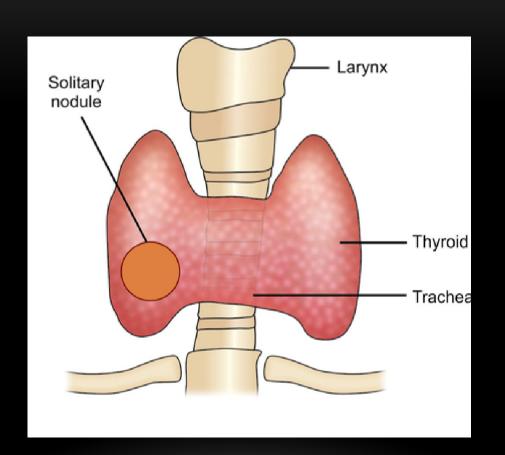


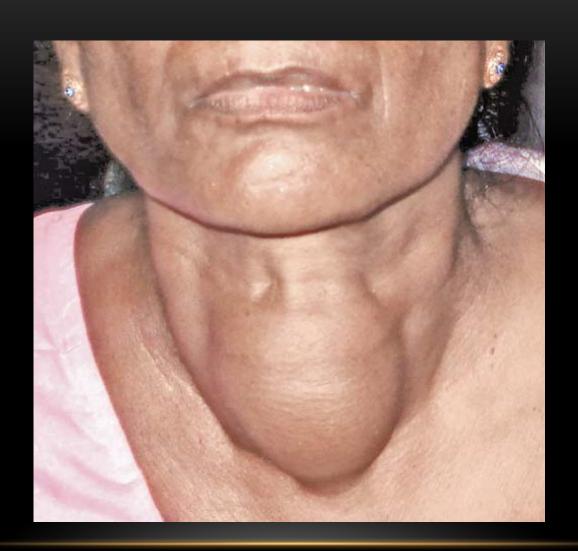


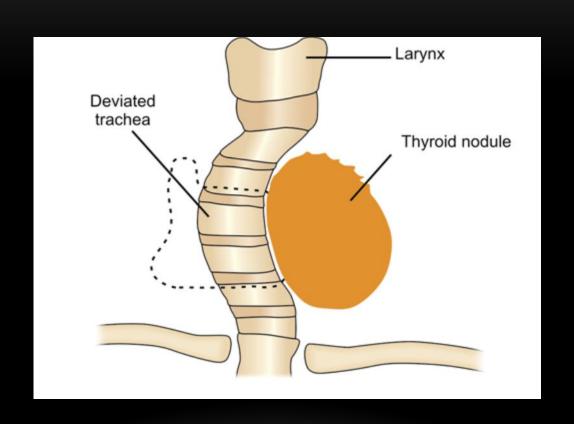


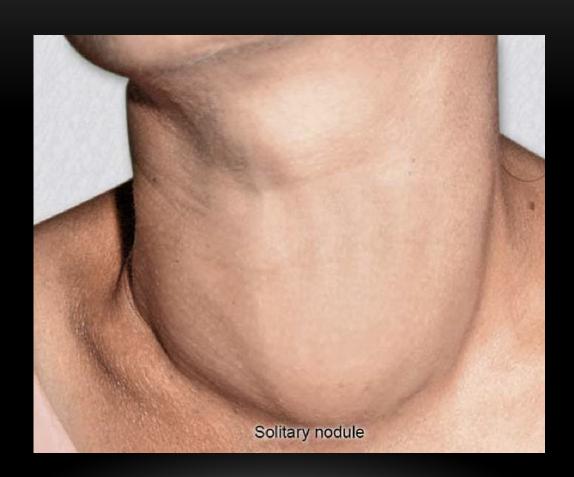














Upper eyelid between upper limbus and pupil



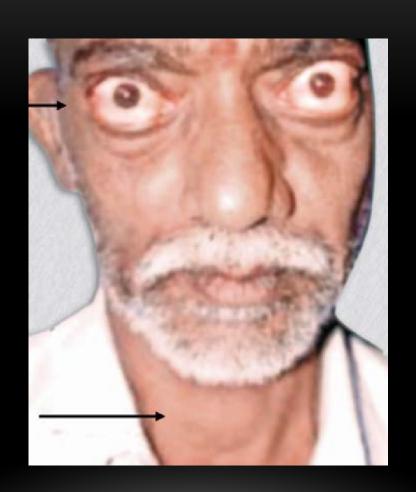
Upper eyelid raised lower eyelid normal

Both upper and lower



eyelids away from the centre with visible sclera all around mainly below





Malignant exophthalamos



