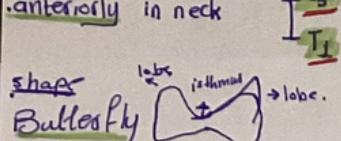


Thyroid

Site: deep to sternothyroid & sternohyoid
anteriorly in neck



surrounded by a thin fibrous capsule.
ensheathed by pretracheal fascia (cervical fascia)

- (may be present)
- projects upward from the isthmus & may be connected by fibromuscular band called levator glandulae thyroideae.
- remnants of thyroglossal duct in embryo.

Isthmus → Horizontal

2 surfaces → Anterior strap muscles (sternothyroid & anterior sternohyoid)
Posterior jugular V
2nd, 3rd & 4th tracheal rings

2 edges/borders

superior → associated with anastomosis between the ante. branched of 2 superior thyroid arteries

Inferior → along this border inferior thyroid vein & thyrofissura ima artery (when present) enter.

Postero-lateral

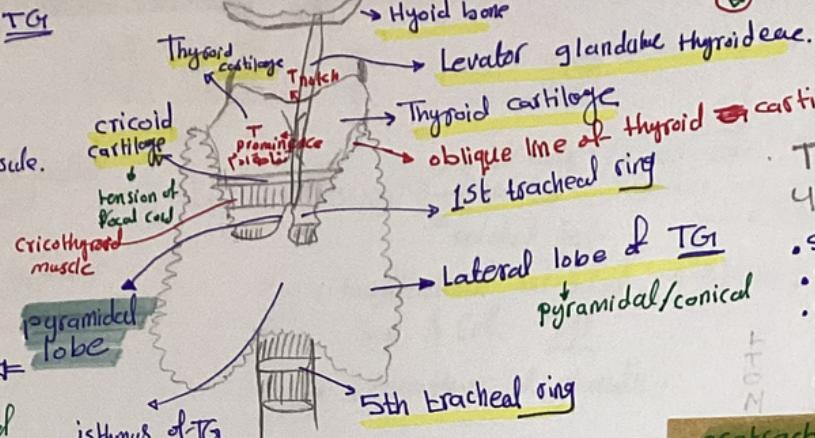
carotid sheath & its contents

The ansa cervicalis is embedded in the anterior wall of the sheath.

2 parathyroid glands are embedded in the posterior surface of each lobe

inferior thyroid A (before entering the gland)

→ the body's largest endocrine gland
→ produce $T_3, T_4 \rightarrow$ control rate of metabolism
calcitonin → control Ca metabolism



Every Lobe has:

✓ apex → pointed upward & laterally
reaches up to the oblique line
sandwiched () ICM & pharynx
medially sternohyoid
laterally.

✓ Base → reaches down to 6th or 6th tracheal ring
related to Inferior Thyroid A
recurrent laryngeal N

* pretracheal fascia swelling moves with swallowing ! (case)

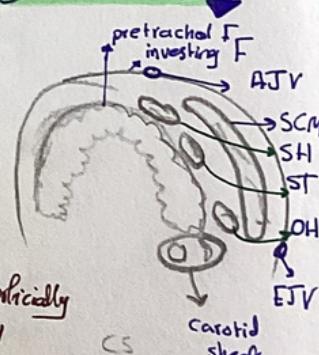
thyroid → pituitary

Parathyroid → Ca level in blood

each Lateral lobe has 3 surfaces

Anterolateral (superficial)

- skin
- superficial fascia (containing platysma)
- deep fascia (pretracheal fascia)
- upper part → crossed by sup. belly of omohyoid.
- middle part → covered by ST superficially
- lower part → overlapped by the ante. border of sternomastoid.



Medial surface. → Tubers

upper part

- Larynx, thyroid, cricoid cartilage & cricothyroid mus.
- Pharynx, ICM.

External laryngeal N

lower part

- Trachea
- Cervical Esophagus

recurrent laryngeal N (in between)

✓ Borders

↳ Anterior

thin /sharp
splits superficial & medial
surfaces

related to:
• ante. branch of the superior TA

↳ Posterior
thick /rounded /blunt.
splits medial & posterior
surfaces.

- longitudinal arterial anastomosis ()
Sup. & Inf. TA
- Parathyroid glands.

Arterial blood supply

• Superior thyroid A

near

(1st ant. branch of ext. carotid artery)

• Inferior thyroid A

away

(from the thyrocervical trunk, a branch
from the 1st part of subclavian A)

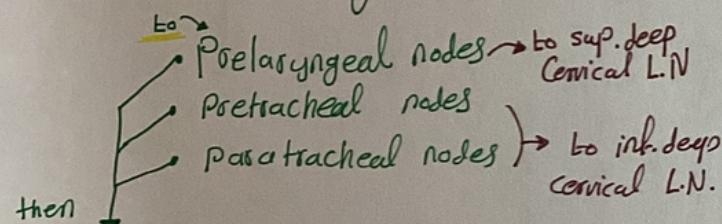
• occasionally → • thyroid ima A.

(from the arch of aorta, brachiocephalic A,
or left common carotid A.)

• It supplies the isthmus of TG₂

Lymphatic drainage

PL S



• superior deep cervical nodes

or

• inferior deep cervical nodes.

* some lymphatic vessels may drain to brachiocephalic LN or thoracic duct.

Parathyroid

upper ⇒ adjacent to the post. surface of the middle part of thyroid lobe.

lower ⇒ lateral or posterior surface of lower part of thyroid lobe. (their position is variable).

4
Small
oval
Yellow-brown

Arterial supply ⇒ I.T.A

Nerve supply ⇒ Symp. (only vasoconstrictor)

Lymphatic vessels ⇒ From parathyroid G drain with those from TG into deep cervical L.N. & paratracheal L.N.

↓ secrete

PTH ↑ Ca in Blood.

Ca levels ↓

↑ PTH ↓ Ca in Blood.

accidental parathyroidectomy

⇒ ↑ Ca in blood

⇒ ↓ PTH