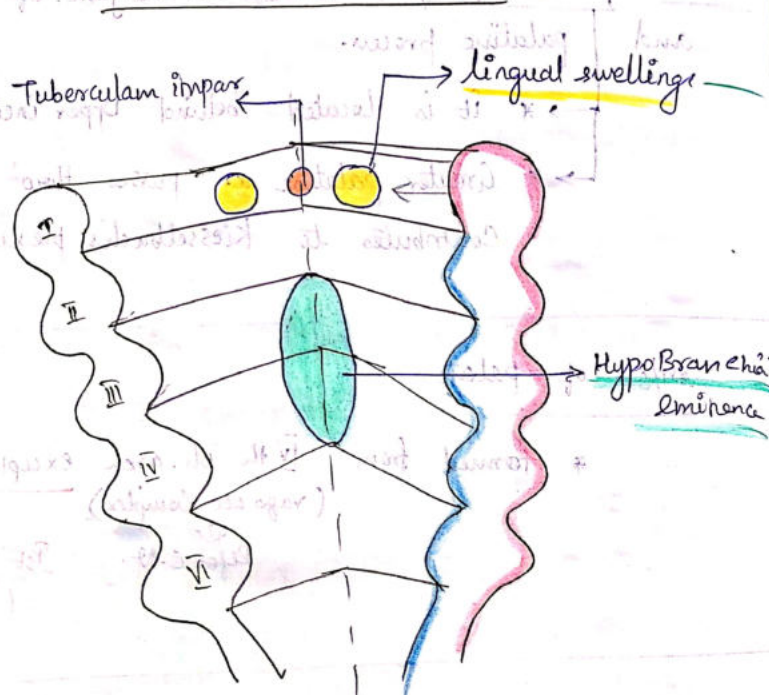
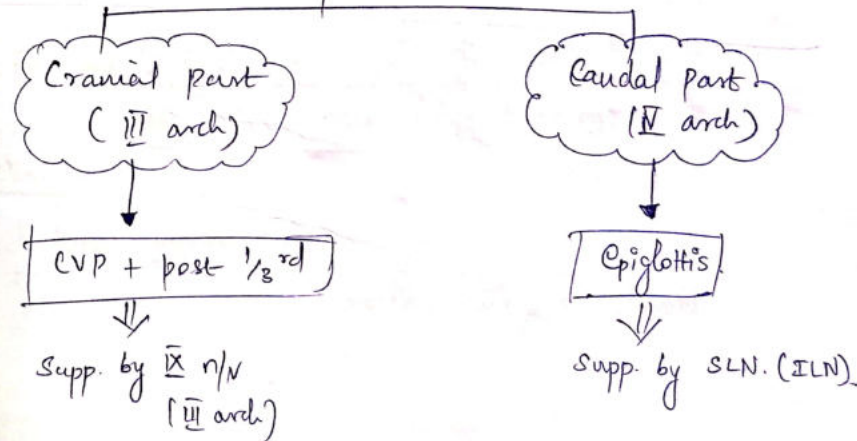
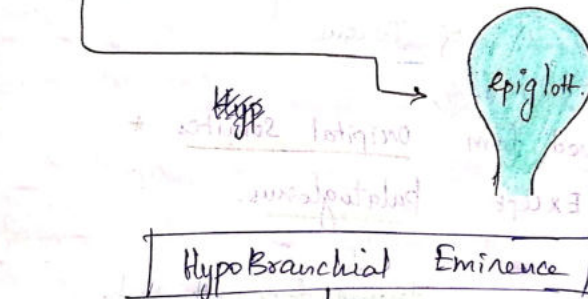
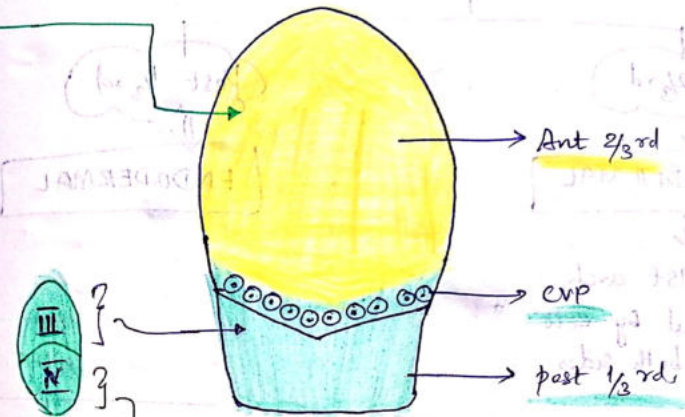
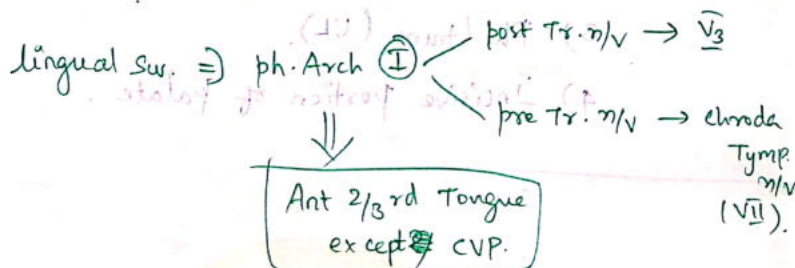


DEVELOPMENT OF TONGUE



Note:

lingual swellings } ⇒ mesodermal swellings.
Hypobr. eminence } (Not. endo:).



lining epithelium

Ant $\frac{2}{3}$ rd.

ECTODERMAL

Because 1st arch
is covered by ecto
on both sides

Post $\frac{1}{3}$ rd

ENDODERMAL

Muscles of Tongue

derived from Occipital Somites. *

Except palatoglossus.

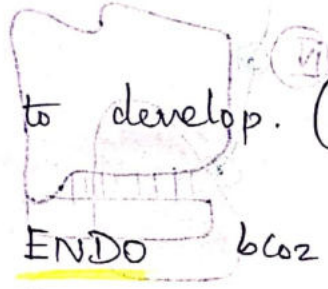
derived from 11th arch

Thyroglossal duct.
(ENDO).

Note:

* 1st endocrine gl. to develop. (D₂₄).

* Thyroid gl. is ENDO bcoz it is
formed from Thyroglossal duct at the junc.
of I & II arches.



Descent/Migratⁿ of Thyroid gl. from F. caecum
to Ant. Neck (Refer Next pg).

Clinical

1) Ectopic Thyroid tissue → mostly lingual thyroid.

III

m/c site for THYROIDOSIS
- CYST

IV

infant & below the BODY
of thyroid bone

OCULAR DERIVATIVES

- 1) Neuroectoderm ^(Diencep.) → Retina, pupillary m/s, ciliary body epi.
optic n/v, optic Tr, optic chiasma
- 2) Surface ectoderm → Corneal epithelium, lens, conjunctival epithelium, lacrimal gl. & Tarsal gl.
- 3) Mesoderm → Ciliary body (Stroma), Sclera, choroid, ^(somites) EOM
- 4) "NCC" → Corneal (stroma), ciliary m/s.

Sublingual gl.
Thyroid gl.

from → **ENDODERM**

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These ③ glands are deep

* Struc. of Adult Size at Birth



- 1) Tympanic Membr.
- 2) Middle ear cavity
- 3) Mastoid Antrum
- 4) Cochlea & Semi^{lar} Canal.
- 5) Ear Ossicles (M, I, S).

Heart Embryology → Next Note