**\*ANATOMY \* DEVELOPMENT OF HEAD AND NECK \* LEC.25**

* **Notes:** 🡪 Stomdum is separated from primitive pharynx by the buccopharyngeal membrane
 🡪 first pharyngeal cleft will invaginate forming :
 1. External auditory miatus
 2. The **outer side** of the tympanic membrane
🡪 bones of the middle ear originate from the **firs pouch** “maleus/incus/stapes”
🡪 parathyroids should reach their final destination by 5th week
🡪 thyroid gland reaches it’s destination by 7th week
🡪anterior to thyroid gland 🡪 trachea
🡪 each arch has:
 1. Dorsal part
 2. Ventral part
 3. Intermediate part
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🡪**First arch:**
 - Dorsal part gives:
 🡪 incus
 🡪 maleus
 🡪 maxillary process: 1. Maxilla
 2. Premaxilla
 3. Zygomatic process
 4. Squamus part of temporal bone

 - Intermediate: mekel’s cartilage

 - ventral part gives:
 🡪 mandibular process 🡪 ossified around vessels “membranus ossif./ flat bone””🡪 forming mandibular canal
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🡪**second arch: same idea** - Dorsal part:
 🡪 stapes “middle ear formed from 2 arches”
 🡪 styloid process

 - intermediate part:
 🡪 stylohyoid ligament

 - ventral part :
 🡪 lesser horn of hyoid
 🡪 upper part of body of hyoid

🡪**third arch: same idea** - only ventral 🡪 greater horn of hyoid and lower part of the body
 - hyoid bone is contributed from 2 arches

🡪 4th and 5th arches same idea “in slide” : only ventral
🡪 forget about :
 \* areterial supply of 3th and 4th arch
🡪 recurrent laryngeal nerve is from XI
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🡪 nasal placodes on the lateral of frontonasal prominences
🡪frontonasal prominence formed by mesenchyme ventral to developing brain
🡪 upper lip contributed from 3 prominances :
 - right and left maxillary nasal 🡪 mustache area
 - medial nasal prominence
🡪 premaxilla : incisors