**\*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