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Tongue

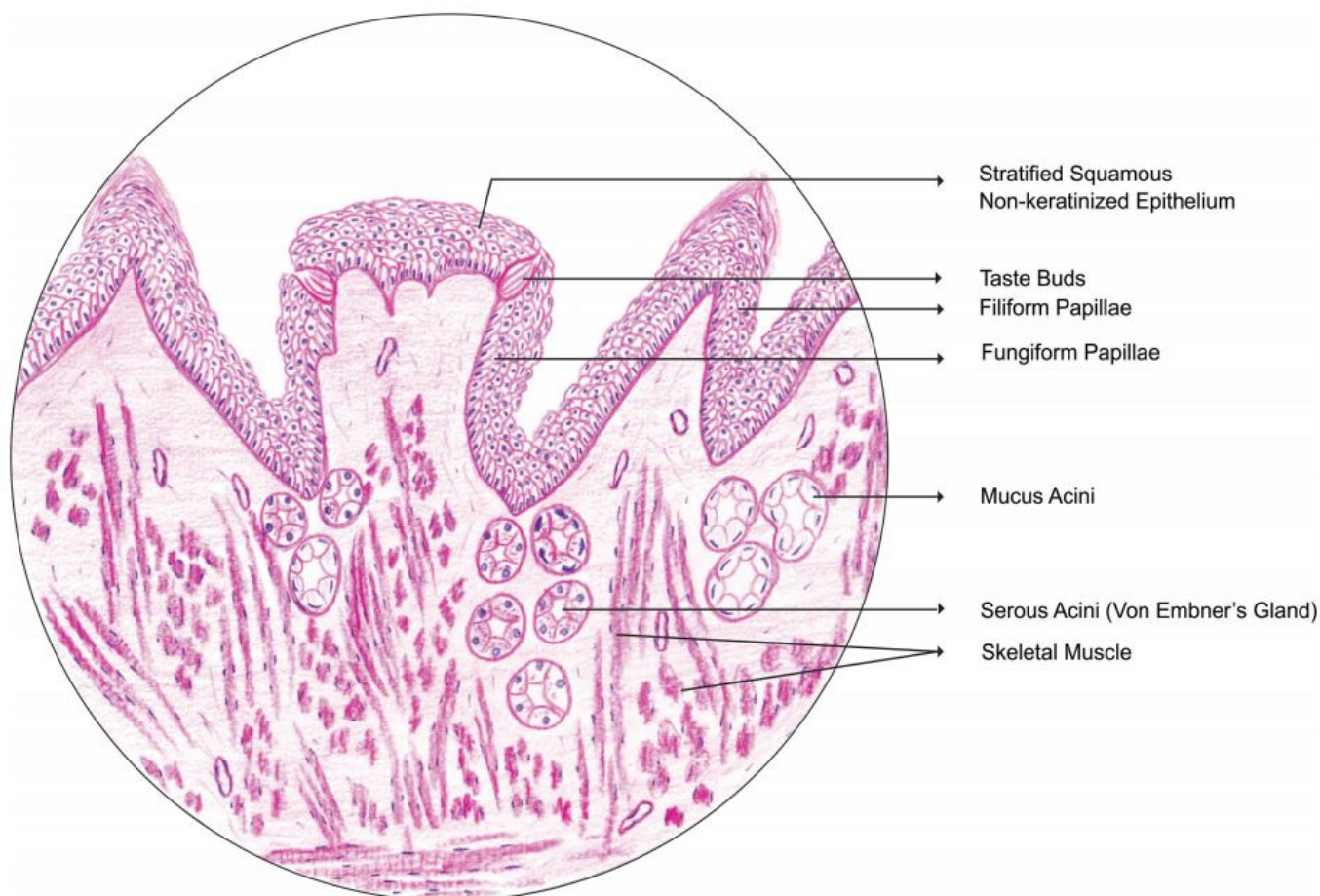
- TONGUE
 - Features
 - muscular organ
 - Function
 - Taste
 - Speech
 - Chewing
 - Deglutition or swallowing
 - Cleansing
 - situation
 - floor or [mouth](#)
 - Shape
 - Convex and triangularly flattened
 - Parts
 - Root of [tongue](#)
 - attachment
 - above
 - styloid process and soft palate
 - below
 - mandible and hyoid bone
 - these prevent the [tongue](#) from collapsing
 - Apex of [tongue](#); tip of [tongue](#)
 - anterior free end
 - at rest lies behind upper incisor [teeth](#)
 - [Body](#) of [tongue](#)
 - Dorsum of [tongue](#) , upper surface
 - divided by sulcus terminalis (Terminal sulcus of [tongue](#))
 - V shaped groove
 - meet at a point called
 - foramen caecum
 - site from which thyroid diverticulum grows in embryo
 - (Thyroglossal duct)
 - runs laterally and forwards [up](#) to palatoglossal arches
 - Anterior part ; presulcal part , oral part
 - Papillae of [tongue](#); lingual papillae
 - Filiform papillae
 - Fungiform papillae
 - Vallate papillae
 - Foliate papillae
 - 2/3rd of [tongue](#)
 - margins are free
 - just in front of palatoglossal arch it shows
 - foliate papillae
 - Posterior part; post-sulcal part , pharyngeal part
 - 1/3rd of [tongue](#)
 - Inferior surface of [tongue](#)

- oral part only
 - smooth mucous membrane
 - Frenulum of **tongue**
 - each side prominence produced by **deep** lingual veins
 - more laterally there is a fold called
 - plica Fimbriata , Fimbriated fold
 - Margin of **tongue**
 - Mucous membrane of **tongue**
 - Midline groove of **tongue**; median sulcus of **tongue**
 - Lingual tonsil
 - Lymphoid nodules
 - Lingual septum
 - Lingual aponeurosis
 - Muscles of **tongue**
 - Extrinsic
 - Genioglossus
 - Hyoglossus
 - Chondroglossus
 - Ceratoglossus
 - Styloglossus
 - Intrinsic
 - Superior longitudinal **muscle**
 - Inferior longitudinal **muscle**
 - Transverse **muscle**
 - Vertical **muscle**
 - Palatoglossus
- FAUCES
 - Isthmus of fauces; oropharyngeal isthmus
 - Soft palate
 - Uvula
 - Palatoglossal arch; anterior pillar of fauces
 - (Triangular fold)
 - Palatopharyngeal arch; posterior pillar of fauces
 - (Semilunar fold)
 - Tonsillar sinus; tonsillar fossa; tonsillar **bed**
 - Supratonsillar fossa
 - Palatine tonsil
 - Tonsillar capsule
 - (Tonsillar cleft; intratonsillar cleft)
 - Tonsillar pits
 - Tonsillar crypts
 - Muscles of soft palate and fauces
 - Palatine aponeurosis
 - Levator veli palatini
 - Tensor veli palatini
 - Musculus uvulae
 - Palatoglossus
 - Palatopharyngeus
 - Anterior fascicle
 - Posterior fascicle; palatopharyngeal sphincter

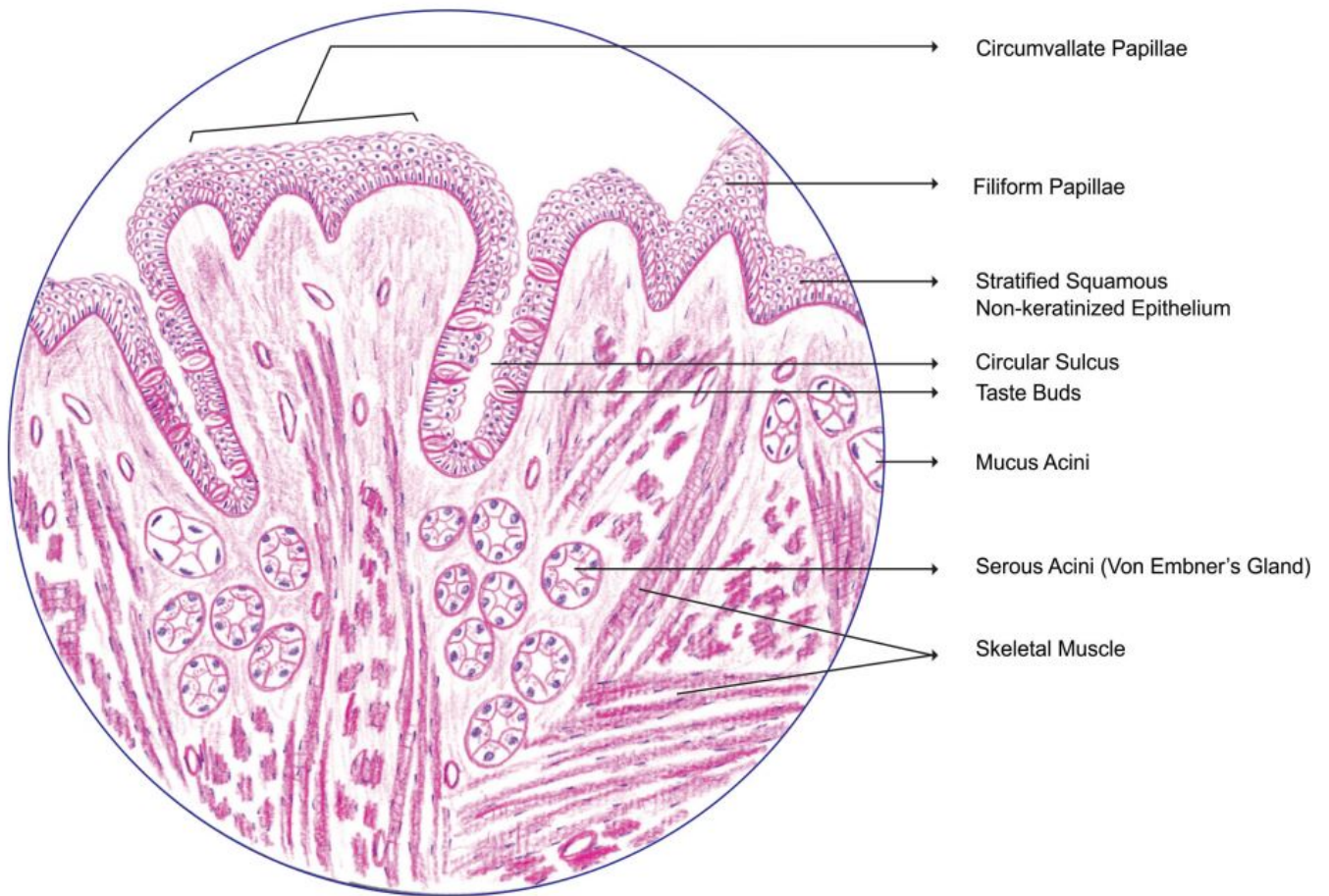
TERMINOLOGY

| LINGUA | TONGUE |
|---|---|
| Corpus linguae | Body of tongue |
| Radix linguae | Root of tongue |
| Dorsum linguae | Dorsum of tongue |
| Pars anterior; pars presulcalis | Anterior part; presulcal part |
| Pars posterior; pars postsulcalis | Posterior part; postsulcal part |
| Facies inferior linguae | Inferior surface of tongue |
| Plica fimbriata | Fimbriated fold |
| Margo linguae | Margin of tongue |
| Apex linguae | Apex of tongue; tip of tongue |
| Tunica mucosa linguae | Mucous membrane of tongue |
| Frenulum linguae | Frenulum of tongue |
| Papillae linguales | Papillae of tongue; lingual papillae |
| Papillae filiformes | Filiform papillae |
| Papillae fungiformes | Fungiform papillae |
| Papillae vallatae | Vallate papillae |
| Papillae foliatae | Foliate papillae |
| Sulcus medianus linguae | Midline groove of tongue; median sulcus of tongue |
| Sulcus terminalis linguae | Terminal sulcus of tongue |
| Foramen caecum linguae | Foramen caecum of tongue |
| (Ductus thyroglossalis) | (Thyroglossal duct) |
| Tonsilla lingualis | Lingual tonsil |
| Noduli lymphoidei | Lymphoid nodules |
| Septum linguae | Lingual septum |
| Aponeurosis linguae | Lingual aponeurosis |
| Musculi linguae | Muscles of tongue |
| M. genioglossus | Genioglossus |
| M. hyoglossus | Hyoglossus |
| M. chondroglossus | Chondroglossus |
| M. ceratoglossus | Ceratoglossus |
| M. styloglossus | Styloglossus |
| M. longitudinalis superior | Superior longitudinal muscle |
| M. longitudinalis inferior | Inferior longitudinal muscle |
| M. transversus linguae | Transverse muscle |
| M. verticalis linguae | Vertical muscle |
| M. palatoglossus | Palatoglossus |
| FAUCES | FAUCES |
| Isthmus faucium | Isthmus of fauces; oropharyngeal isthmus |
| Palatum molle; velum palatinum | Soft palate |
| Uvula palatina | Uvula |
| Arcus palatoglossus; plica anterior faucium | Palatoglossal arch; anterior pillar of fauces |
| (Plica triangularis) | (Triangular fold) |
| Arcus palatopharyngeus; plica posterior faucium | Palatopharyngeal arch; posterior pillar of fauces |

| | |
|---|---|
| (Plica semilunaris) | (Semilunar fold) |
| Fossa tonsillaris; sinus tonsillaris | Tonsillar sinus; tonsillar fossa; tonsillar bed |
| Fossa supratonsillaris | Supratonsillar fossa |
| Tonsilla palatina | Palatine tonsil |
| Capsula tonsillae | Tonsillar capsule |
| (Fissura tonsillaris; fissura intratonsillaris) | (Tonsillar cleft; intratonsillar cleft) |
| Fossulae tonsillae | Tonsillar pits |
| Cryptae tonsillae | Tonsillar crypts |
| Musculi palati molles et faucium | Muscles of soft palate and fauces |
| Aponeurosis palatina | Palatine aponeurosis |
| M. levator veli palatini | Levator veli palatini |
| M. tensor veli palatini | Tensor veli palatini |
| M. uvulae | Musculus uvulae |
| M. palatoglossus | Palatoglossus |
| M. palatopharyngeus | Palatopharyngeus |
| Fasciculus anterior | Anterior fascicle |
| Fasciculus posterior; m. sphincter palatopharyngeus | Posterior fascicle; palatopharyngeal sphincter |



CIRCUMVALLATE PAPILLA

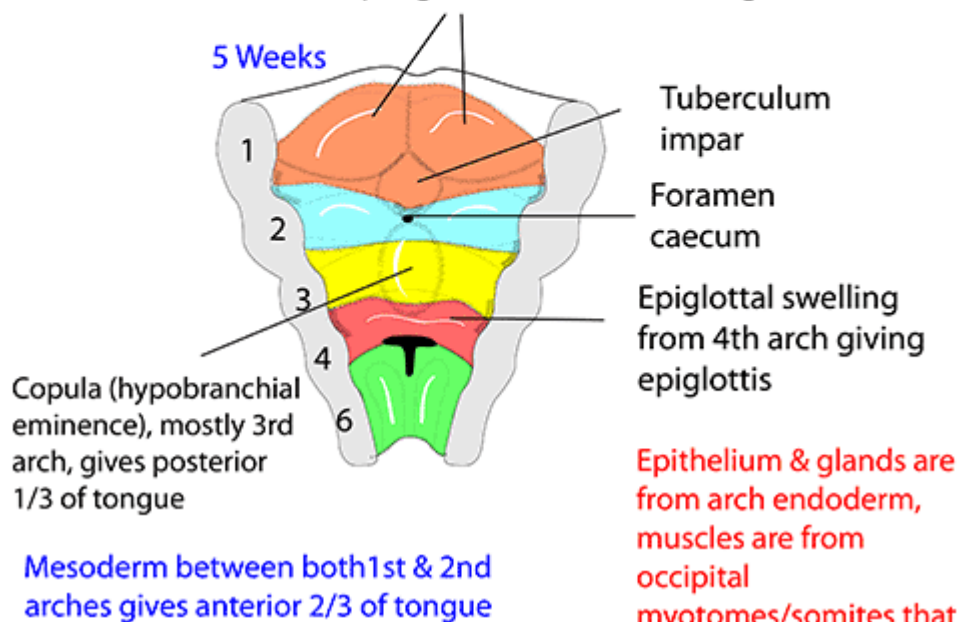


FORMATION OF THE TONGUE

FLOOR OF PHARYNX (PHARYNGEAL ARCHES)

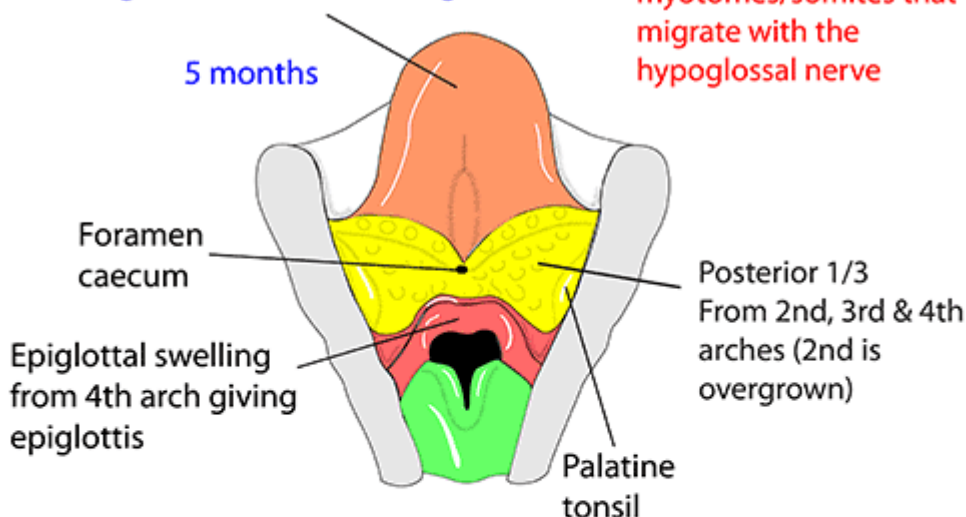
Lingual swellings with tuberculum impar give anterior 2/3 of tongue

5 Weeks



Epithelium & glands are from arch endoderm, muscles are from occipital myotomes/somites that migrate with the hypoglossal nerve

5 months



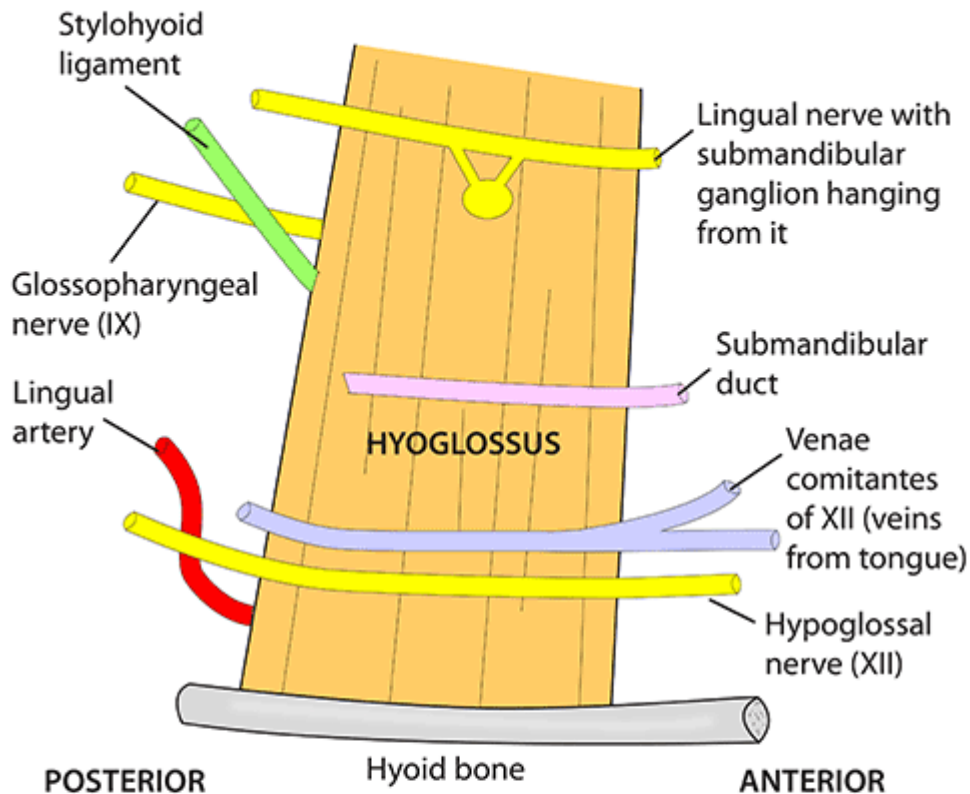
NERVES

Redrawn, with permission, from Sadler TW. Langman's Medical Embryology, 11th ed. Baltimore: Lippincott Williams & Wilkins; 2010

Anterior 2/3 Mandibular division of trigeminal (Vc). 1st arch nerve
Chorda tympani for taste. Only remnant of 2nd arch

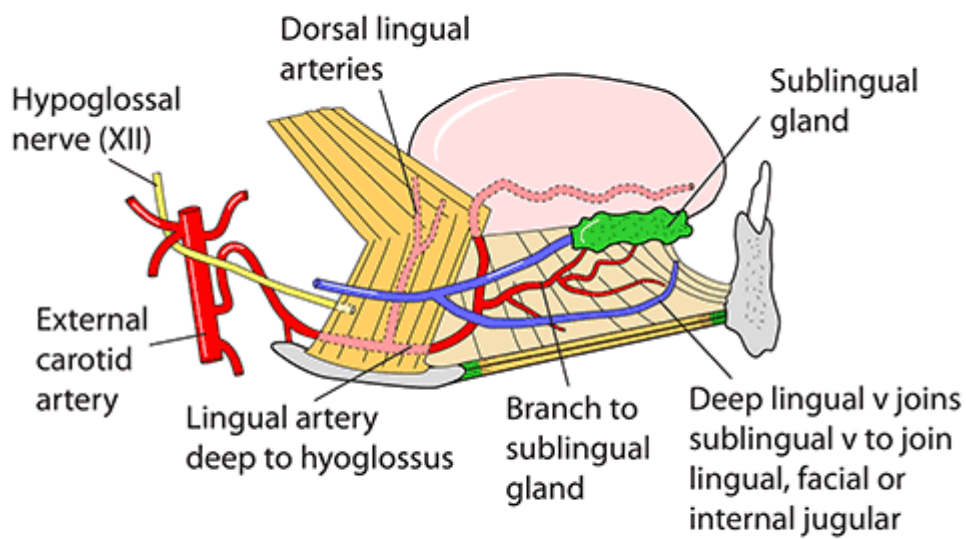
Posterior 1/3 Glossopharyngeal (IX). 3rd arch nerve
Internal branch of superior laryngeal branch of vagus which is 4th arch nerve

HYOGLOSSUS & ITS RELATIONS



- The mylohyoid muscle (not shown) overlaps the anterior edge of hyoglossus
- Hyoglossus is supplied by the hypoglossal nerve as are all the muscles of the tongue except palatoglossus (pharyngeal plexus)
- Further anteriorly, under the mylohyoid, the lingual nerve passes lateral to the submandibular duct, then dips under it to appear on its medial side to enter the tongue
- The venae comitantes of the hypoglossal nerve pass posteriorly to join the facial vein

TONGUE - LINGUAL ARTERY

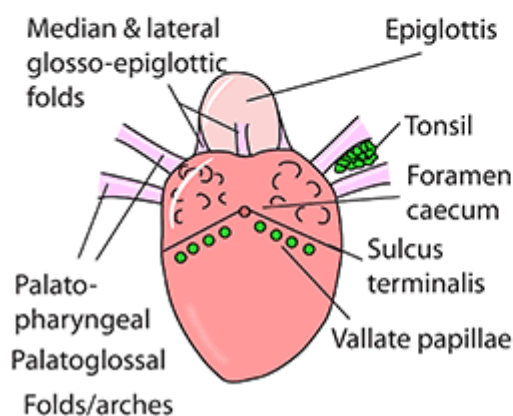


LYMPH

- Tip to submental glands bilaterally
- Dorsum to submandibular mostly unilaterally
- Posterior to jugulo-omohyoid & deep cervical

TONGUE - GENERAL TOPOGRAPHY

The tongue is a mass of skeletal muscle covered by mucous membrane. It is divided functionally and embryologically into an anterior 2/3 and a posterior 1/3 by the sulcus terminalis

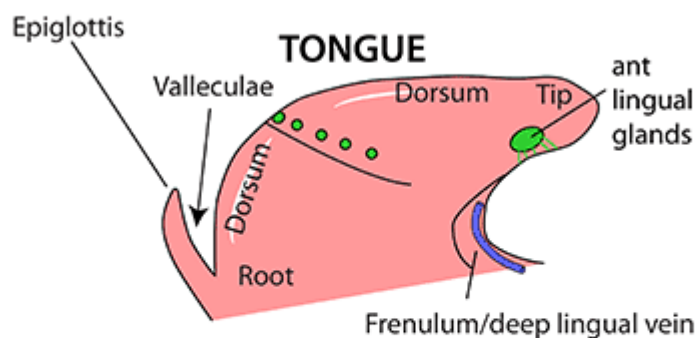


POSTERIOR 1/3:

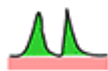
Oropharynx. smooth mucosa for swallowing
No papillae. Lingual tonsil.
Serous/mucous glands

ANTERIOR 2/3:

Oral. Papillae (filiform, fungiform & vallate) for grip/taste.
Glands on tip and sides only
Stratified, keratinising squamous epithelium



PAPILLAE



Filiform for grip, keratin tips - pink after chewing, white then brown when dry



Fungiform
Taste buds



Vallate with crypts for taste and serous glands

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