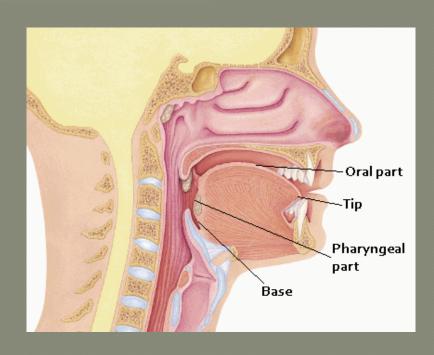
Tongue

- Mass of striated muscles covered with the mucous membrane
- Divided into right and left halves by a median septum
- Three parts:
 - Oral (anterior ²/₃)
 - Pharyngeal (posterior ¹/₃)
 - Root (base)
- Two surfaces:
 - Dorsal
 - Ventral

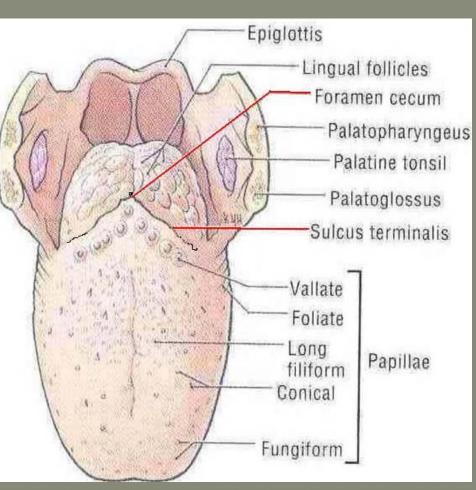


Dorsal Surface

 Divided into anterior two third and posterior one thi by a V-shaped sulcus terminalis.

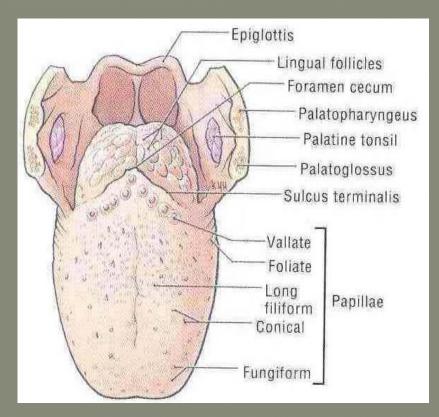
 The apex of the sulcus face backward and is marked k a pit called the foramen cecum

 Foramen cecum, an embryological remnant, marks the site of the upper end of the thyroglossal due



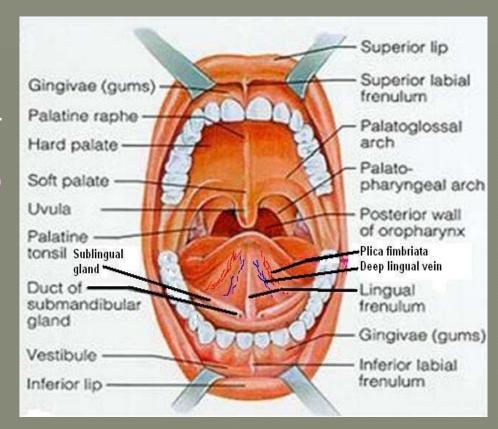
Dorsal Surface cont'd

- Anterior two third: mucosa is rough, shows three types of papillae:
 - Filliform
 - Fungiform
 - Vallate
- Posterior one third: No papillae but shows nodular surface because of underlying lymphatic nodules, the lingual tonsils



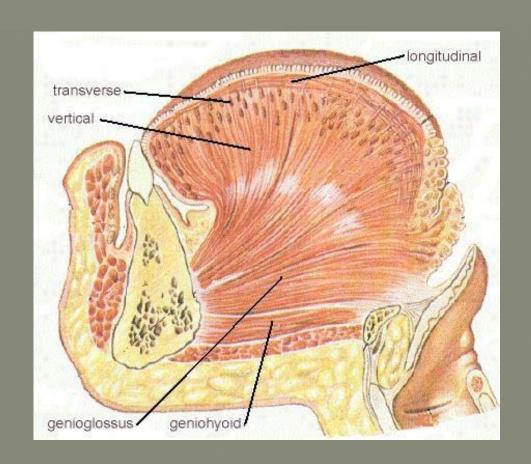
Ventral Surface

- Smooth (no papillae)
- In the midline anteriorly, a mucosal fold, frenulum connects the tongue with the floor of the mouth
- Lateral to frenulum, deep lingual vein can be seen through the mucosa
- Lateral to lingual vein, a fold of mucosa forms the plica fimbriata



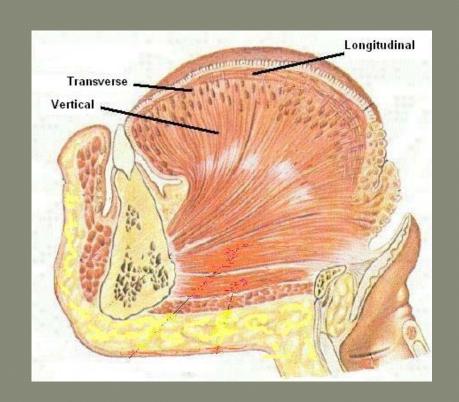
Muscles

- The tongue is composed of two types of muscles:
 - Intrinsic
 - Extrinsic



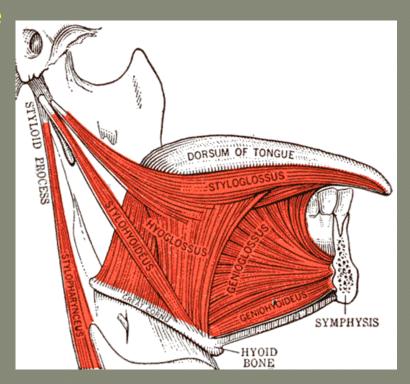
Intrinsic Muscles

- Confined to tongue
- No bony attachment
- Onsist of:
 - Longitudinal fibers
 - Transverse fibers
 - Vertical fibers
- Function: Alter the shape of the tongue



Extrinsic Muscles

- Connect the tongue to the surrounding structures: the soft palate and the bones (mandible, hyoid bone, styloid process)
- Include:
 - Palatoglossus
 - Genioglossus
 - Hyoglossus
 - Styloglossus
- Function: Help in movements of the tongue



Lymphatic Drainage

Tip:

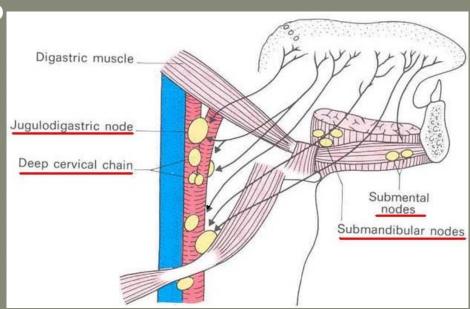
Submental nodes
 bilaterally & then deep
 cervical nodes

• Anterior two third:

 Submandibular unilaterally & then deep cervical nodes

•Posterior third:

 Deep cervical nodes (jugulodigastric mainly)



Carcinoma tongue

Predisposing factors

Pipe smoking

Syphilis

Chronic superficial glossitis

Alcohol

Chronic irritation -sharp tooth

Betel nuts



Macroscopically

Ulcer –most common irregular margins everted edges

- Warty growth
- Indurated growth or mass
- Fissure

Clinical feature

- Usually age > 50 yrs
- Sex both equally
- Painless lump or ulcer on tongue
- Excessive salivation
- Foetor oris
- Ankyloglossia-immobility of tongue
- Pain –involvement of nerve
- Horseness of voice & dysphagia in posterior 3rd tongue
- Lump in neck

Examination

- Site common anterior 2/3 near edges
- Ulcer papilliferours or warty, lump fissure
- Palpation of posterior 2/3 tongue
- Largngoscopy
- Examination of lymph node
 Submental
 Submandibular
 Jugulodiagastric

Investigation

- Biopsy: margin or excision biopsy
- FNAC lymphnodes
- Ultrasound deep LN
- CT scan bone invasion & mets
- MRI for oral cavity oropharynx
- Radionucleotide scan