

Submandibular gland.

- a large Salivary gland situated in anterior part of digastric triangle.
- It is a mixed salivary (both serous & mucous).
- It extends till the stylomandibular ligament posteriorly.

PARTS → divided into 2 parts by mylohyoid muscle.

- superficial part
 - deep part
- Continuous along the posterior part of mylohyoid muscle.

PARTS.

- superficial part - large. → ^{fills} in anterior part of digastric Δ .

Two ends → anterior & posterior.

3 surgeries → inferior surgery, medial surgery, lateral surgery.

MEDIAL RELATION - medial surface is divided into 3 parts.

① Anterior part → related to.
mylohyoid muscle, nerve & vessels.
Submental branch of facial artery.

② Intermediate middle.
hyoglossus
~~hyoglossus~~
Lingual & hypoglossal nerve.
Submandibular ganglion.

③ Posterior part → styloglossus muscle.
Stylohyoid ligament. ✓
Glossopharyngeal N.
wall of pharynx.

DEEP PART - Lies on hyoglossus muscle.

Laterally - mylohyoid

medially - Hyoglossus & styloglossus.

ARTERIAL SUPPLY → facial artery

VENOUS → Common facial vein.

Lymphatic → Submandibular lymph nodes.

FASCIA / CAPSULE.

⇒ Investing layer of deep cervical fascia.

⇒ splits at Cornu of hyoid bone. → superficial & deep layer.

• superficial layer → covers → inferior surface of gland.

• deep layer → covers medial surface of gland.

RELATIONS

SUPERFICIAL PART

INFERIOR RELATIONS.

SIAN

Superficial fascia.

deep fascia.

* Facial vein. ✓

Submandibular lymph node.

LATERAL RELATIONS

• Submandibular fossa

• medial pterygoid muscle. ✓

• Facial artery. ✓

✓ Sympathetic fibres.

Figure UQ

parotid

derived from sympathetic plexus around facial artery.

Spinal nerve



Superior cervical sympathetic relay.
ganglion



post ganglionic fibres



plexus around facial artery.



fibres pass through submandibular
ganglion

without relay.

✓ SENSORY - Lingual nerve.

BRANCHES → 5-6

enters submandibular gland
sublingual gland

★ Nerve Supply

✓ A. secretomotor fibres / parasympathetic.

Superior Salivatory nucleus.

↓
facial nerve

↓
Chorda tympani

↓
Lingual Nerve.

↓
relay in Submandibular
ganglion

↓
post ganglionic fibres.

↓
Submandibular & Sublingual
glands

Sympathetic supply

T₁ spinal segment.



Superior cervical sympathetic ganglion.



postganglionic fibres.



plexus around facial artery.



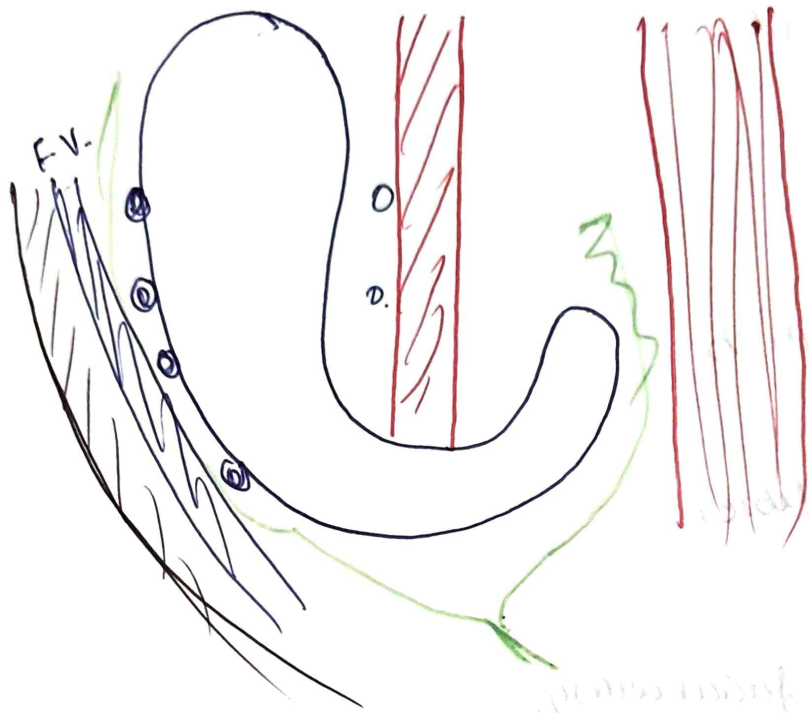
derived from this plexus → Submandibular gland.



SENSORY SUPPLY

⇒ by lingual nerve.

[Faint, illegible handwritten notes in the background, possibly related to the sensory supply of the submandibular gland.]



Sup
S + P
Inf.

Wharton's Duct

- 5cm long.
- emerge at anterior end of deep part.
- in hyoglossus between lingual (above) & hypoglossal below.
- near anterior border of hyoglossus, (It is crossed by lingual nerve).
- opens into oral cavity @ summit of sublingual papilla at side of frenulum of tongue.

Submandibular ganglion

Same - Same but
different ☺

- collection of cell bodies
- located in course of parasympathetic fibres supplying SM & SL salivary glands

✓ Topographically → Lingual nerve.

✓ Junctionally → facial nerve.

shape → fusiform

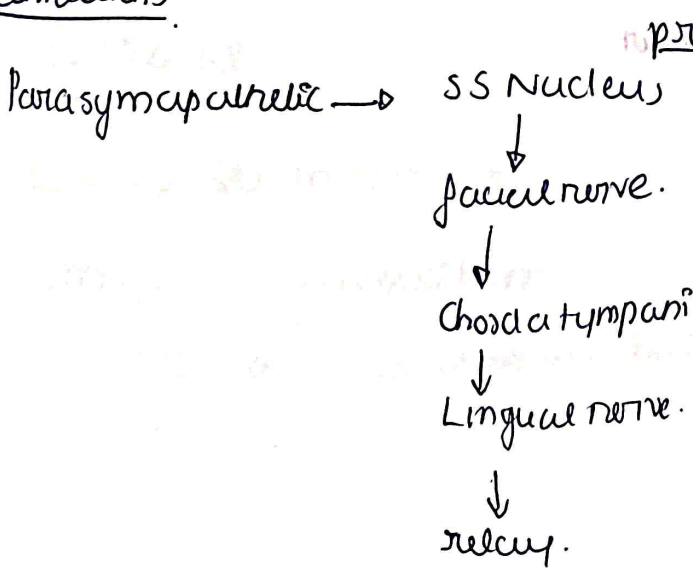
situation: hyoglossus muscle.

relations

superiorly → Lingual nerve.

Inferiorly → deep part of submandibular gland.

✓ Connections



post → to sub. & SL salivary glands.

Applied anatomy

• formation of calculi in submandibular gland & duct is more common than parotid.

due to: more viscous secretion
path of duct is upwards & tortuous.

• during extraction → injury to marginal mandibular branch of facial nerve.

• swelling of SMG is palpated BIMANUALLY → between thumb & index.

if swelling is below jaw in question.

& said bimanually palpated to confirm

It means

submandibular gland.

(UQ)

Sublingual

• duct → 20 in number.

• वर्णन व्युत्पत्ति

NS same as submandibular वर्णन वर्णन