

وسهلا



أهلا

يُمنع أخذ السلايدات بدون
إذن المحرر واي اجراء
يخالف ذلك يقع تحت طائلة
المسؤولية القانونية
جميع المعلومات للاستخدام
التعليمي فقط

الأستاذ الدكتور يوسف حسين

كلية الطب - جامعة مؤتة - الأردن

دكتورة من جامعة كولونيا المانيا

Prof. Dr. Youssef Hussein Anatomy - YouTube

الواتس (أي استفسار)
00201224904207

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Submandibular gland

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- **Type;** It is a mixed **Salivary** gland (**mucous and serous**).

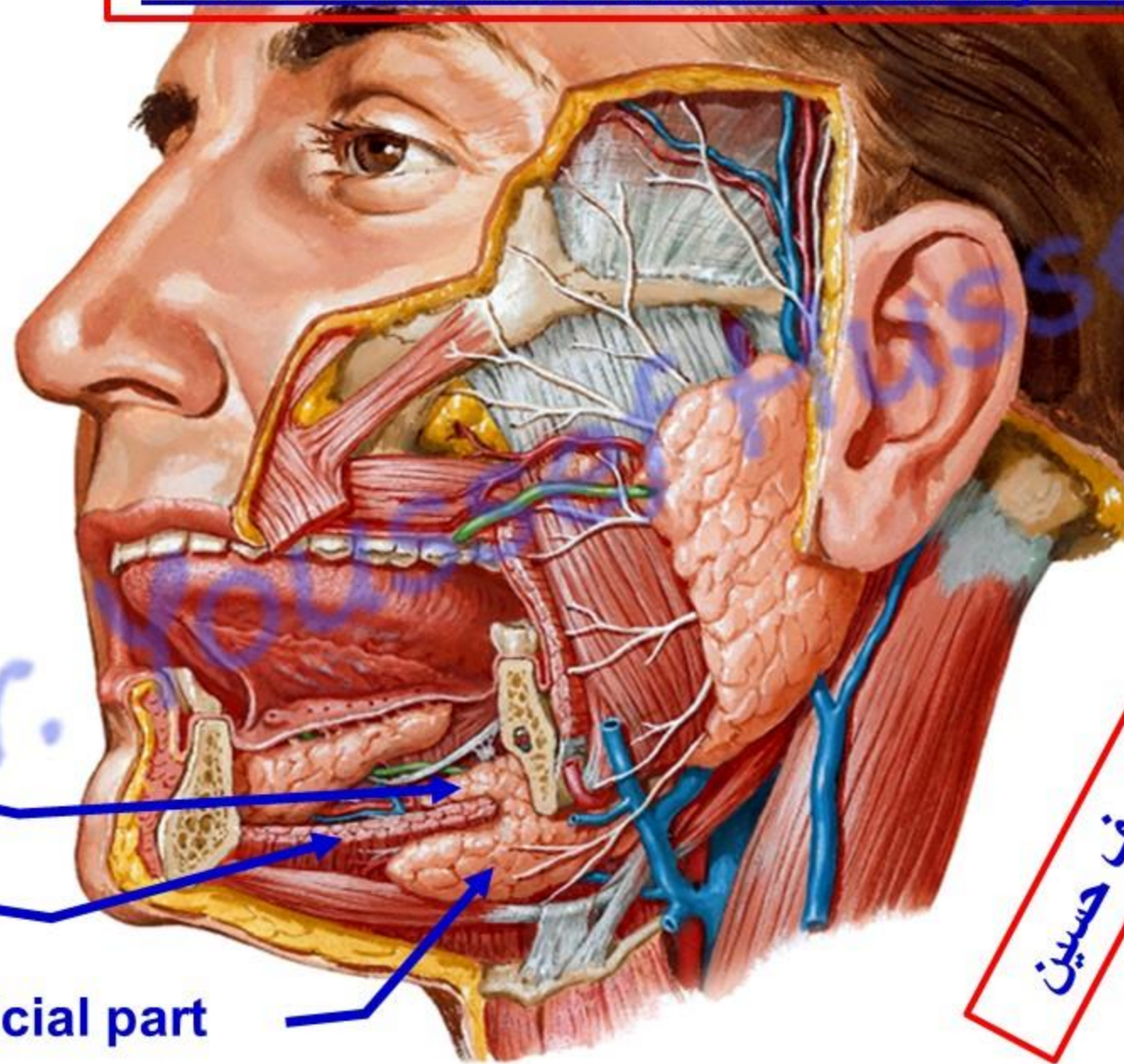
- **Parts:**

- 1) Large superficial part.
- 2) Small deep part.

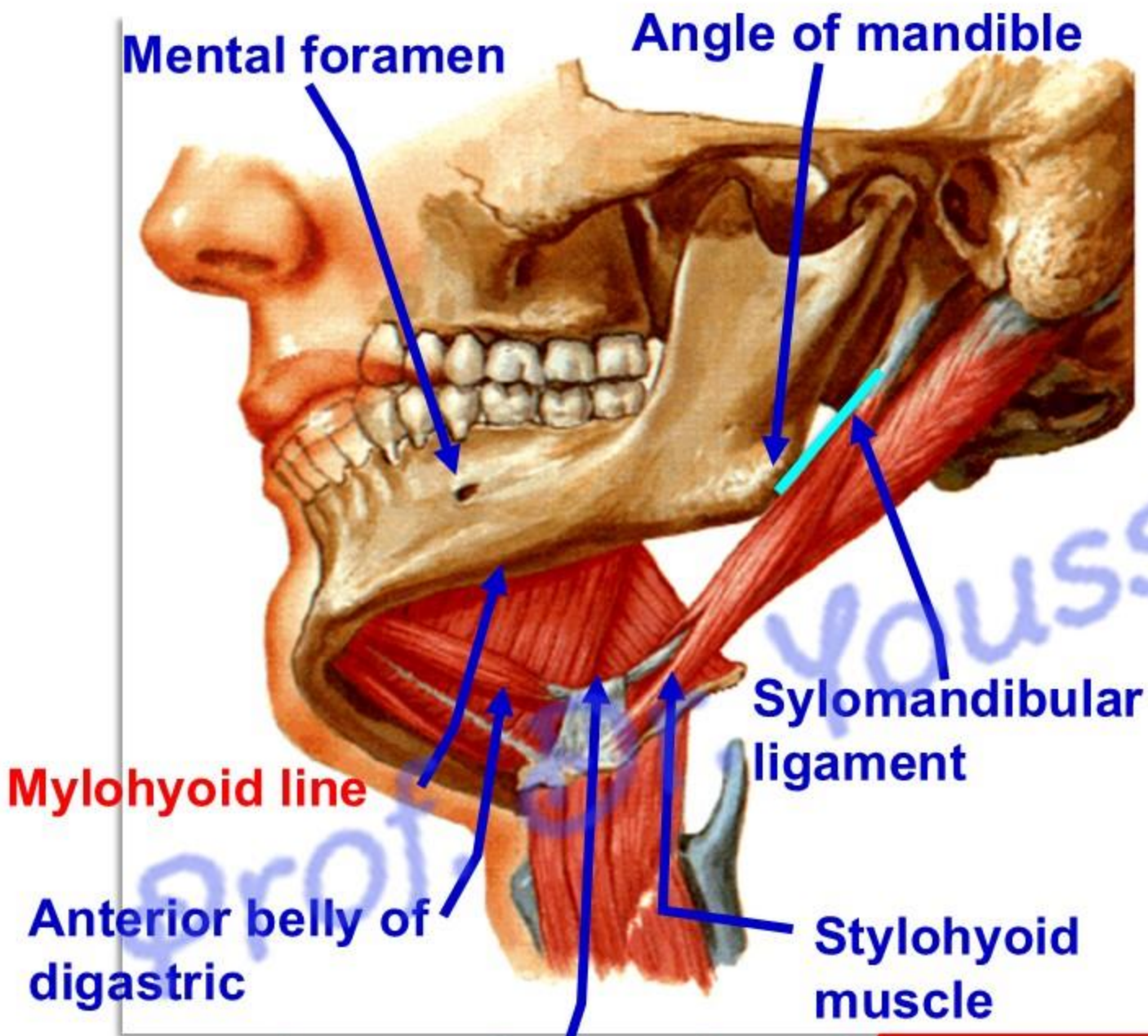
- The two parts are continuing with each other at the posterior border of the mylohyoid muscle.

Mylohyoid muscle

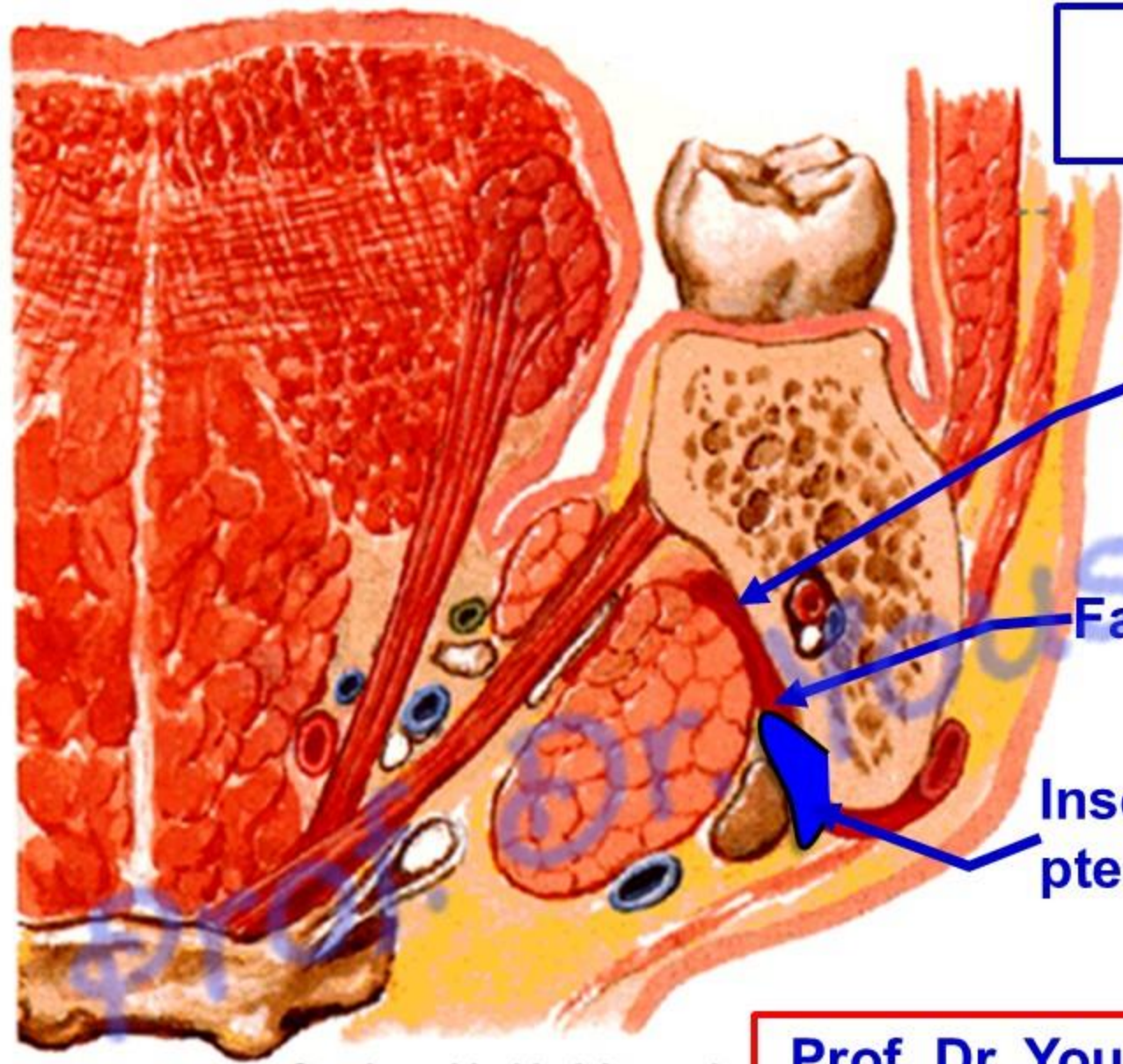
Superficial part



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- **Extension of the superficial part :**
 - It lies in the submandibular (digastric) triangle extending:
 1. **Anteriorly:** to the mental foramen, it overlaps the anterior belly of digastric muscle.
 2. **Posteriorly:** to the angle of mandible, it is separated from the parotid gland by the stylomandibular ligament.
 3. **Above:** mylohyoid line of mandible.
 4. **Below:** it overlaps the intermediate tendon of digastric.



- Relations of the lateral surface of superficial part

- Shape: wedge shaped

Submandibular fossa of mandible

Facial artery

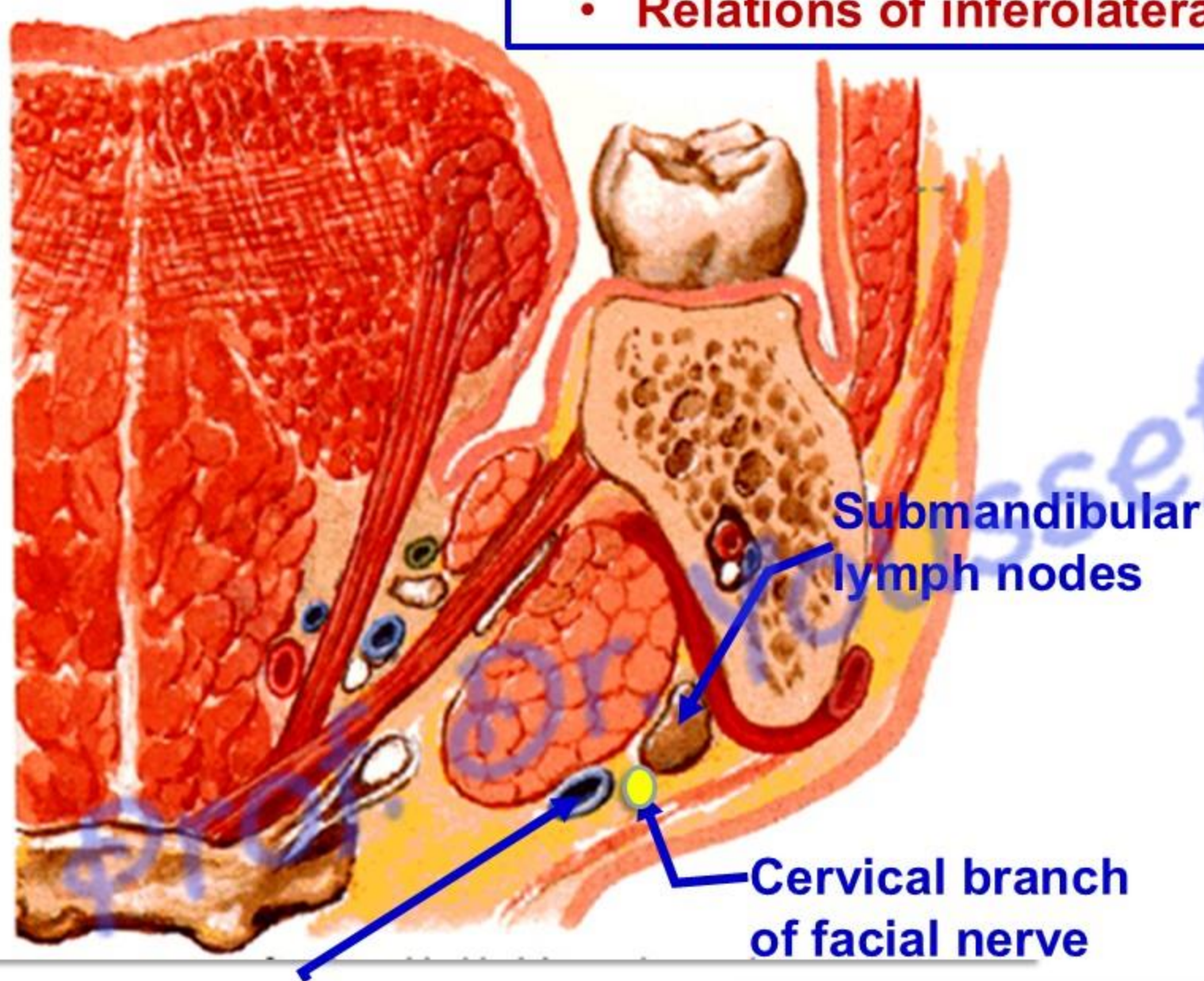
Insertion of medial pterygoid muscle

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Coronal section

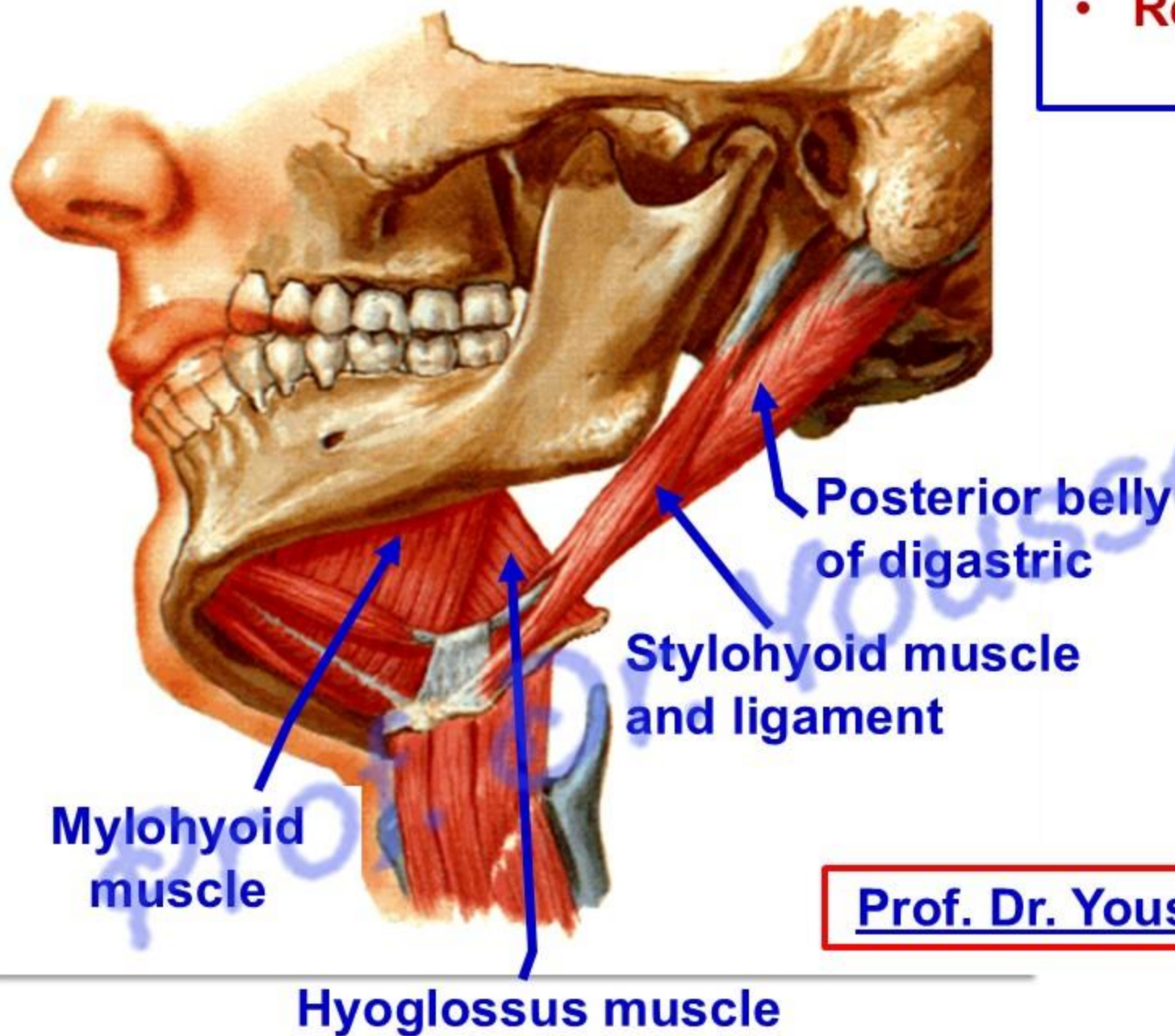
• **Relations of inferolateral surface of superficial part**



- (1) Skin.
- (2) Superficial fascia containing platysma and cervical branch of facial nerve.
- (3) Deep fascia.
- (4) Submandibular lymph nodes.
- (5) Anterior Facial vein.

Facial vein

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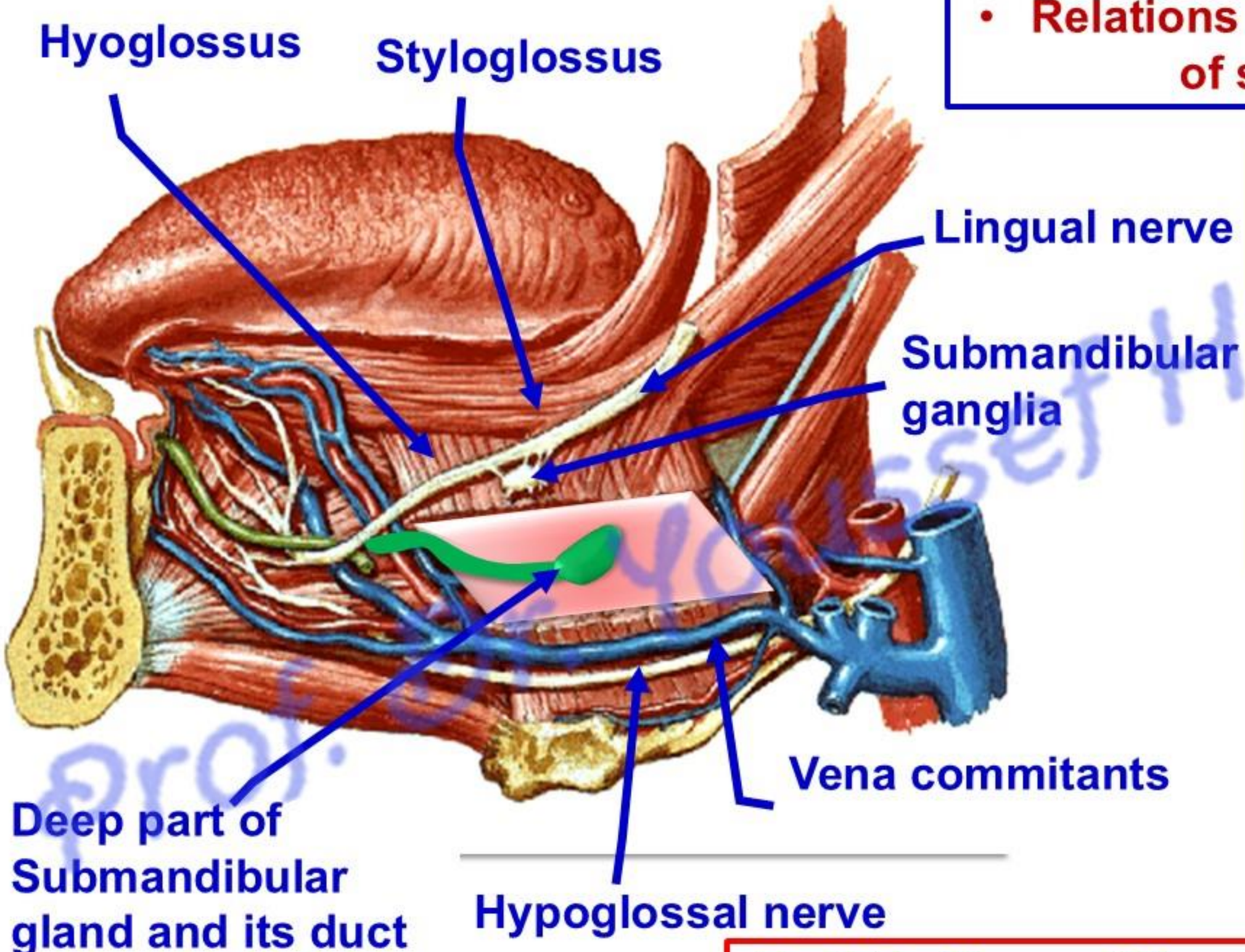


- **Relations of the medial surface of superficial part**

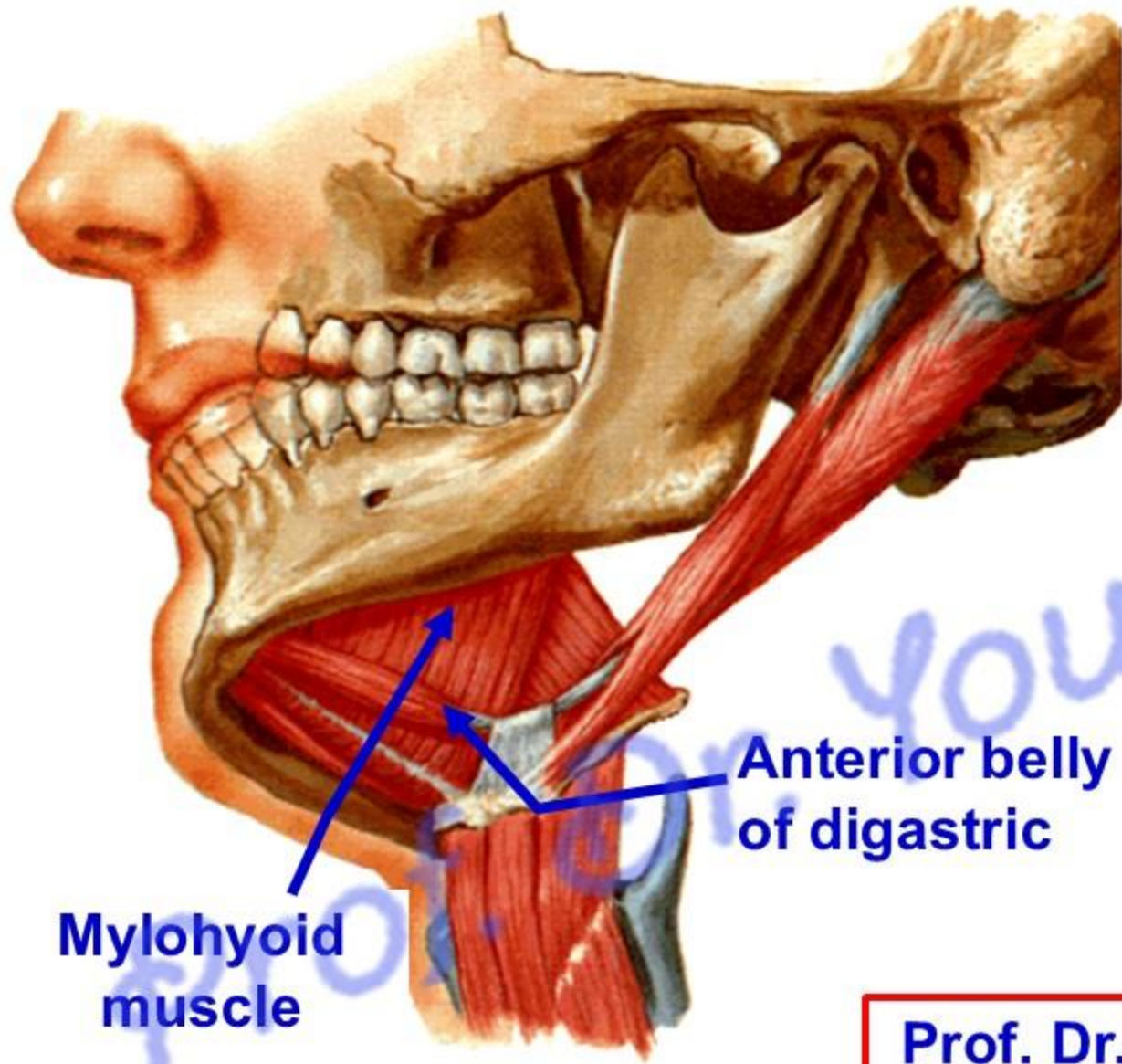
- Its **anterior part** is related to mylohyoid muscle
- Its **middle part** is related to hyoglossus muscle
- Its **posterior Part** is related to
 - (a) Posterior belly of digastric.
 - (b) Stylohyoid muscle and stylohyoid ligament.

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• **Relations of the medial surface of superficial part**



- Its **middle part** is related to hyoglossus muscle separated from it by from above downward:



Mylohyoid
muscle

Anterior belly
of digastric

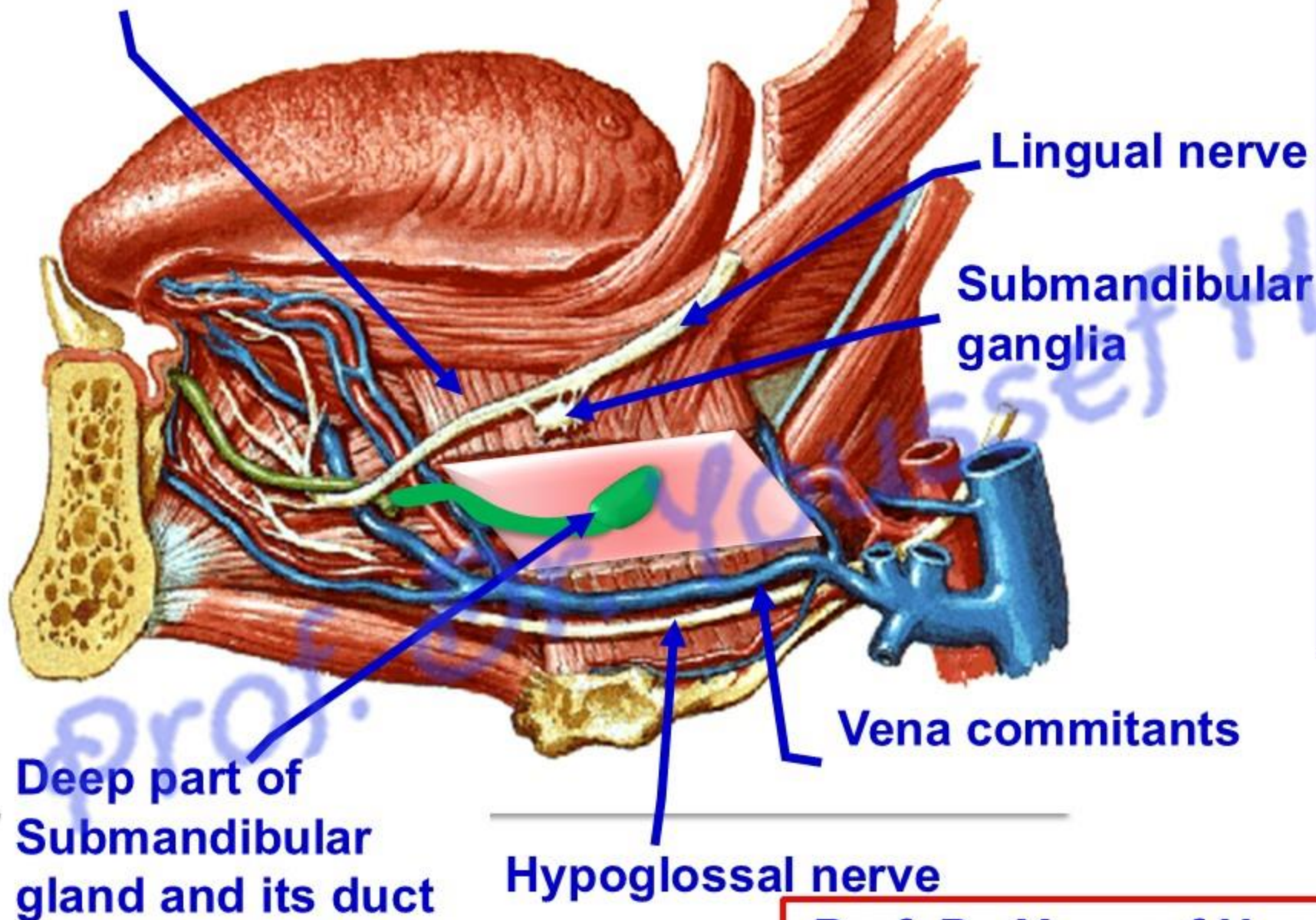
- **Relations of the medial surface of superficial part**

- Its **anterior part** is related to mylohyoid muscle separated from it by
 - a) Mylohyoid nerve and vessels
 - b) Anterior belly of digastric muscle
 - c) Submental vessels.

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Hyoglossus

• **Relations of the deep part and duct**

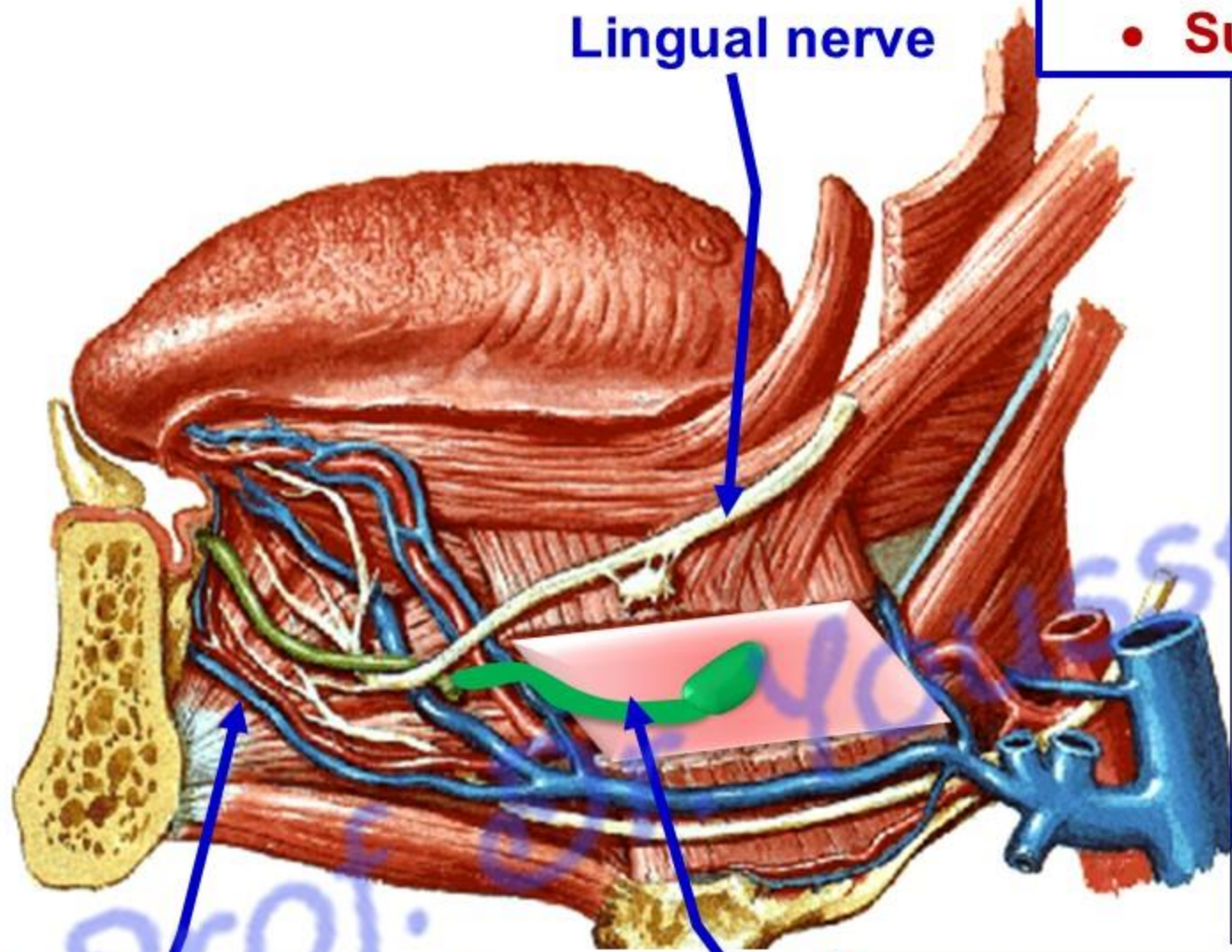


- Lingual nerve (**above**).
- Hypoglossal nerve and vena comitantes (**below**).
- Hyoglossus muscle (**Medially**).
- Mylohyoid muscle (**Laterally**).

Lingual nerve

• Submandibular (Wharton's) duct

- **Length:** 5 cm long.
- It passes between genioglossus (medially) and sublingual gland (laterally).
- **Lingual nerve** has triple relations with duct: **lateral, below, medial.**
- **Ends;** opens into sublingual papilla in floor of mouth close to frenulum of tongue.



Genioglossus

Deep part of
Submandibular
gland and its duct

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Sublingual gland

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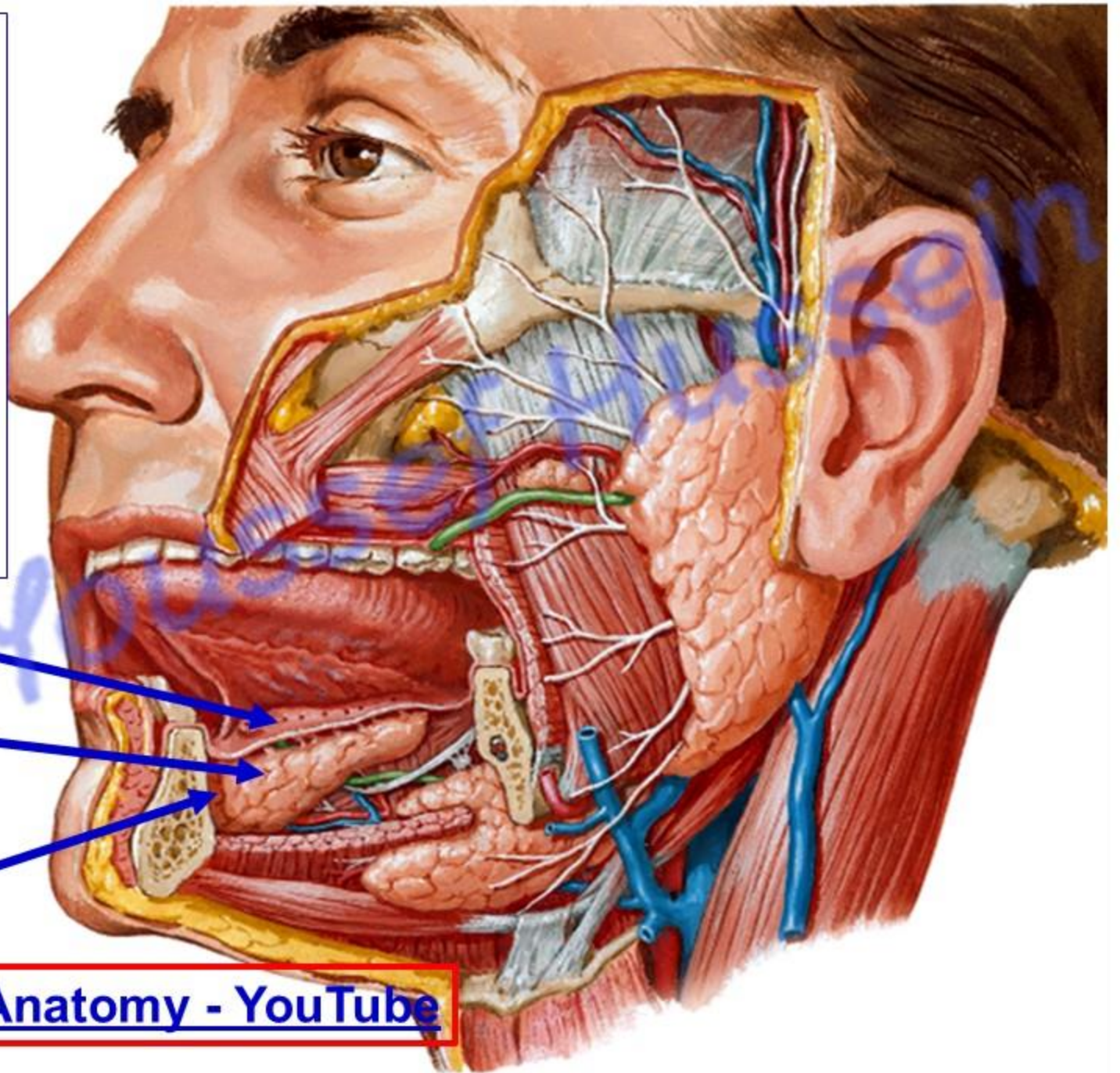
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- **Site:** It lies under the mucous membrane of the floor of the mouth forming sublingual fold and occupying the sublingual fossa of the mandible.
- **Size:** it is the smallest of the 3 salivary glands.
- **Shape:** almond shaped.

Mucus membrane

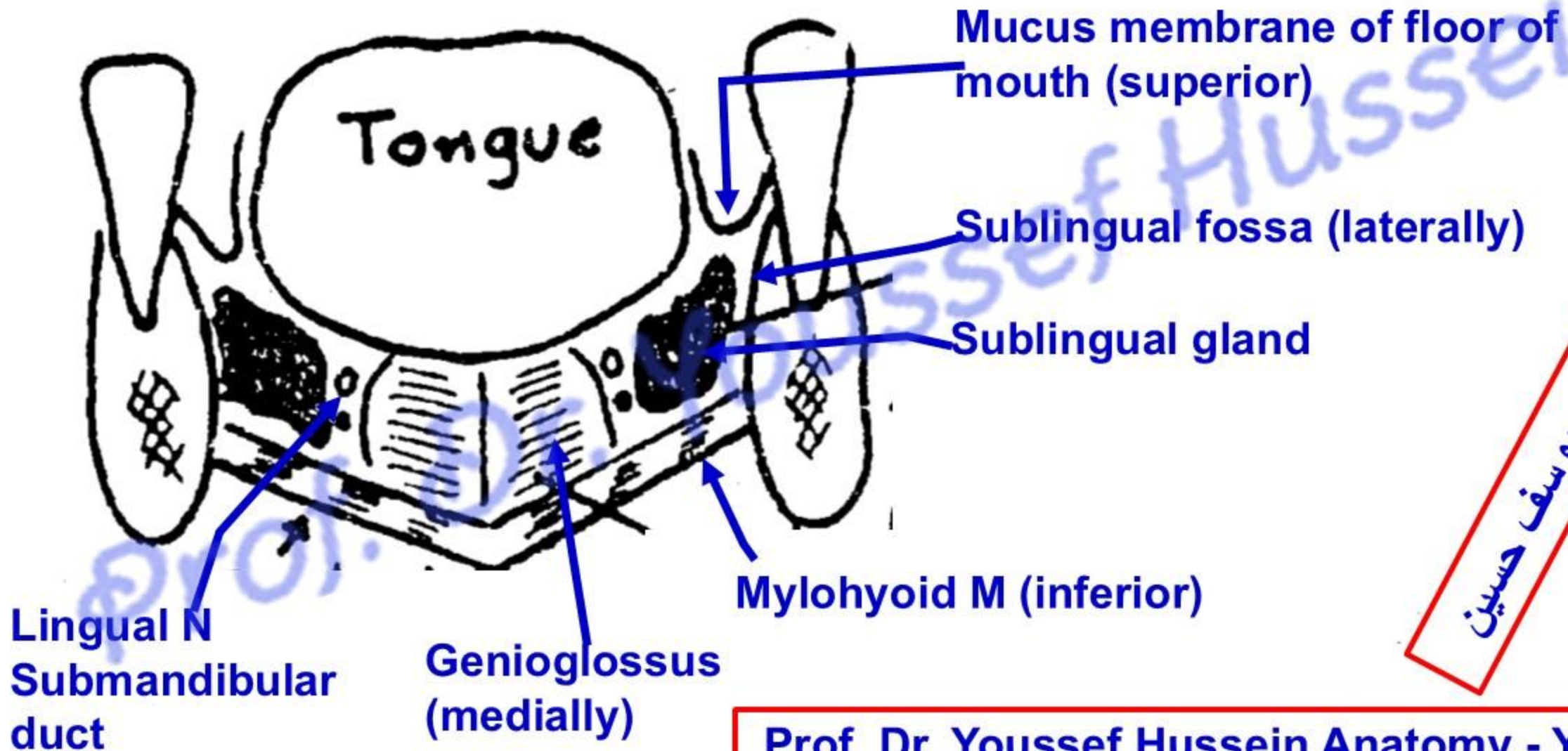
Sublingual gland

Sublingual fossa



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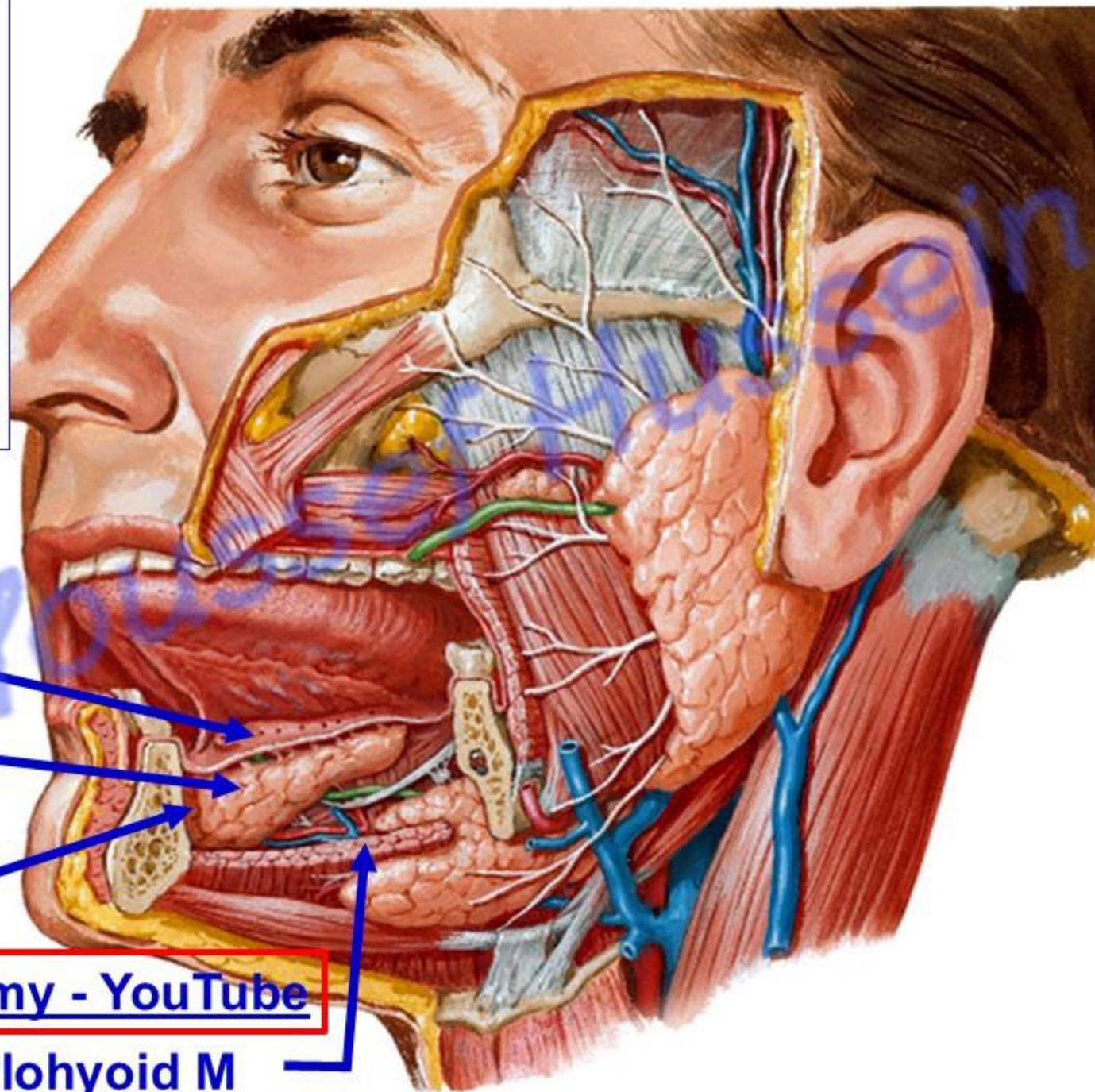
- **Relations of sublingual gland**
 - **Coronal section**



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• **Relations:**

- **Superiorly:** mucous membrane of the floor of the mouth.
- **Inferiorly:** mylohyoid muscle.
- **Laterally:** sublingual fossa of mandible.



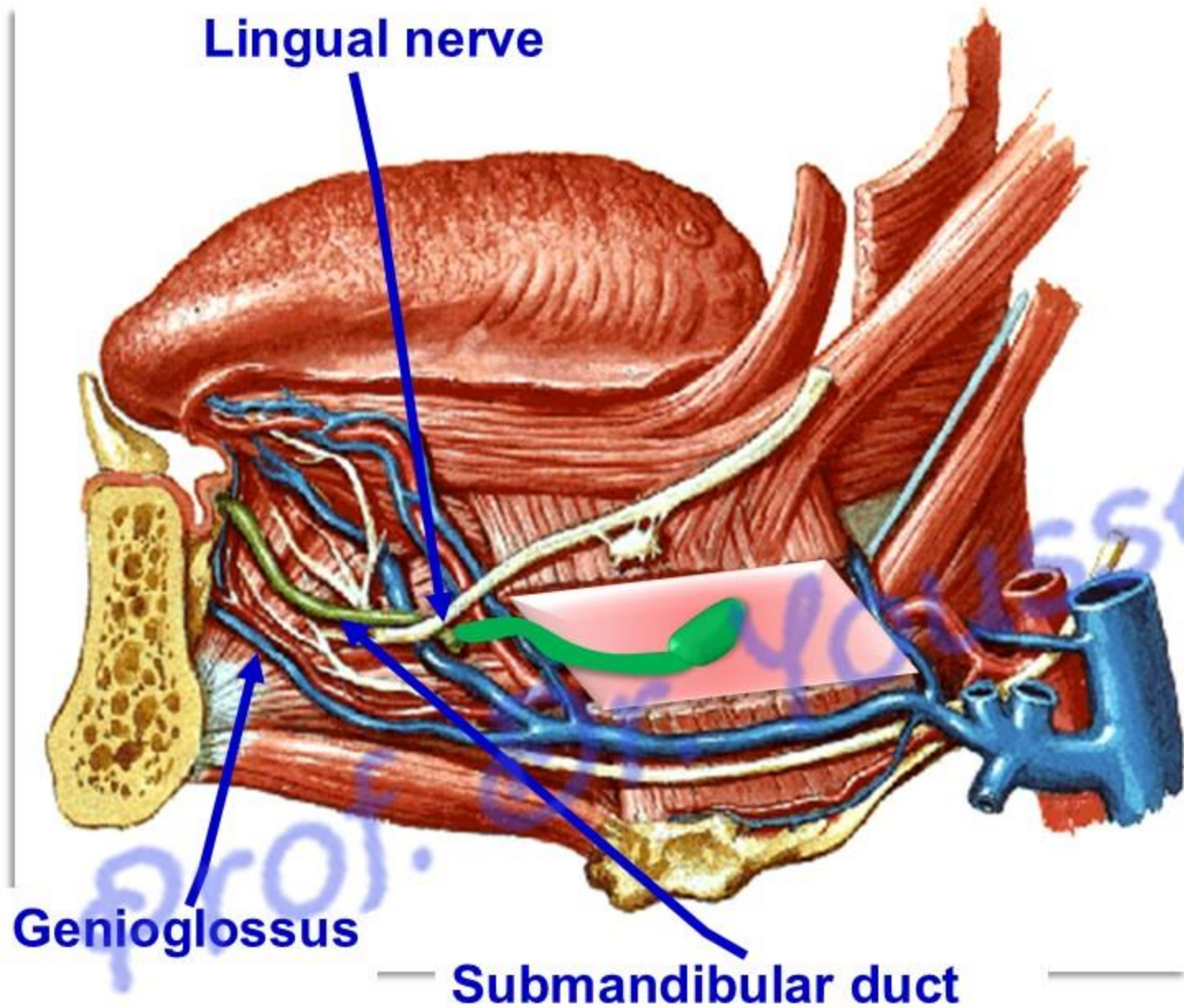
Mucus membrane

Sublingual gland

Sublingual fossa

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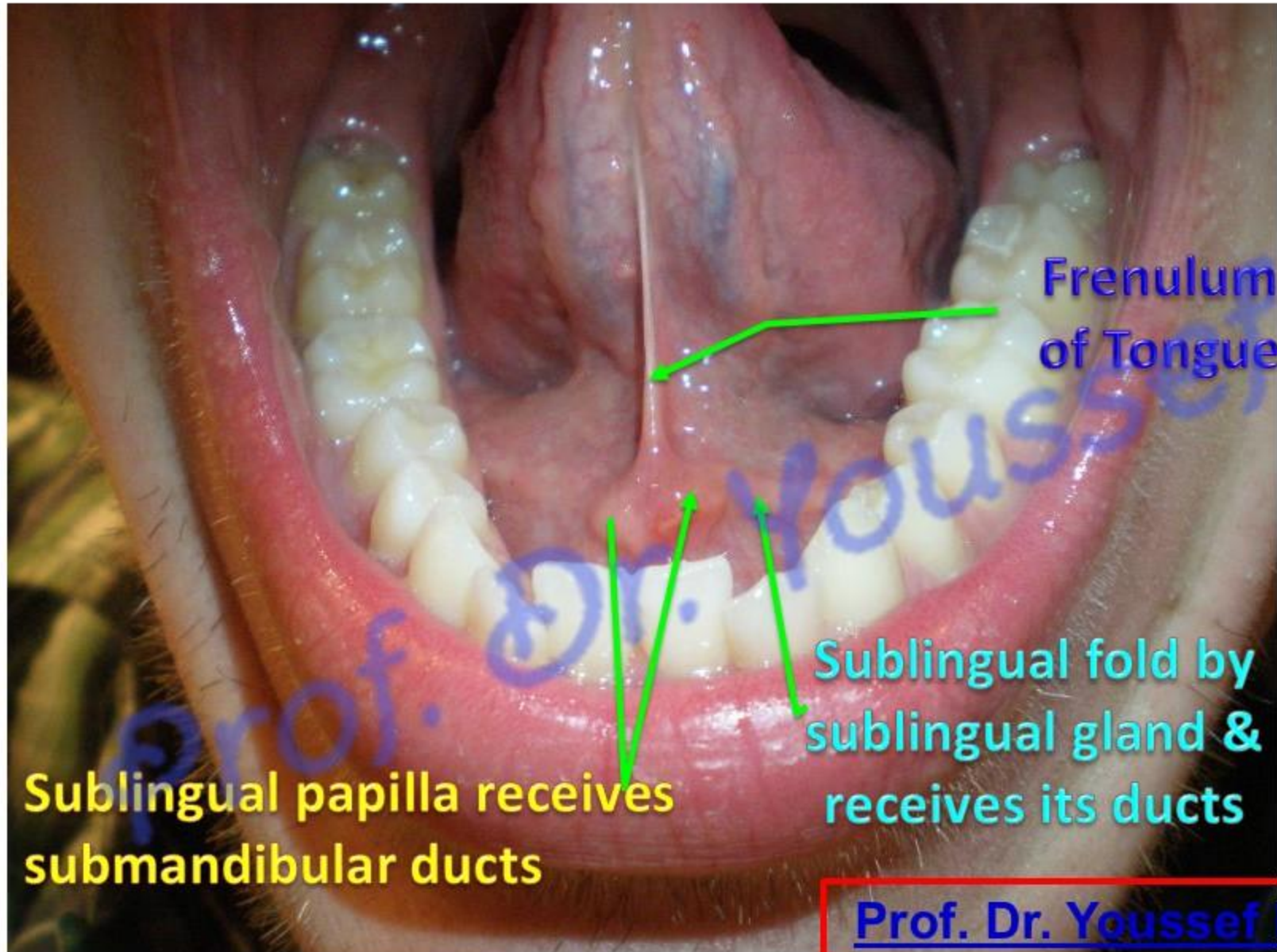
Mylohyoid M



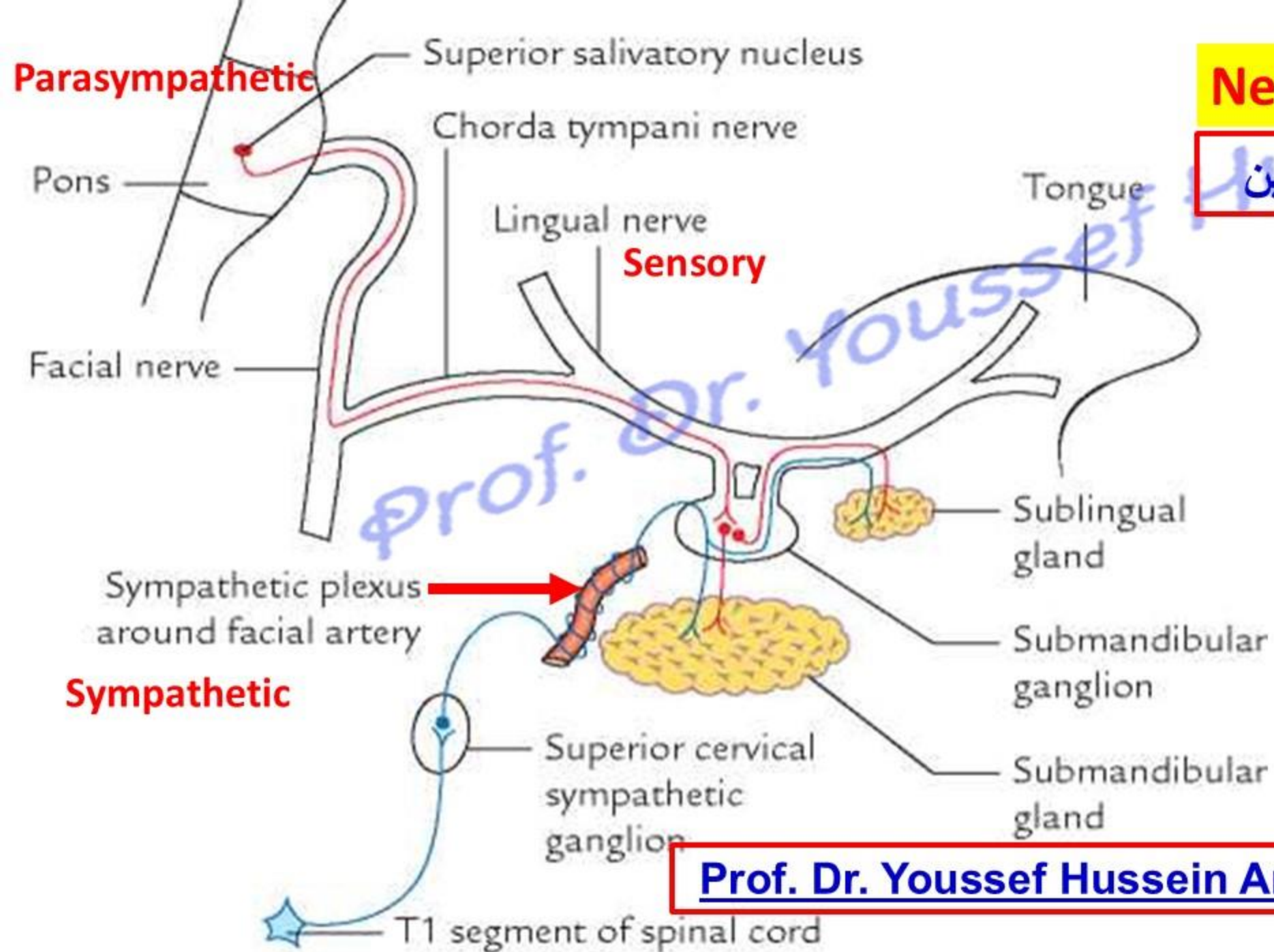
Medial relations of sublingual gland: genioglossus muscle separated from it by the lingual nerve and submandibular duct.

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Floor of mouth cavity



- **Submandibular duct** opens into **sublingual papilla** in floor of mouth close to frenulum of tongue.
- **Sublingual gland** gives about 10-20 ducts which open into **sublingual fold** in floor of mouth.



Nerve supply

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postganglionic fibres to the submandibular and Some of the postganglionic fibers reach the sublingual gland after they re-enter the lingual nerve

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- The **stones** affect the **submandibular duct**
- **Causes:** Dehydration, smoking, medications such as diuretics and anticholinergic drugs, Trauma
- **The main symptoms** are pain and swelling in the gland and under the tongue. Pain becomes worse during and after eating.
- **The differential diagnosis** of a submandibular mass includes salivary gland pathologies, and lymph node diseases



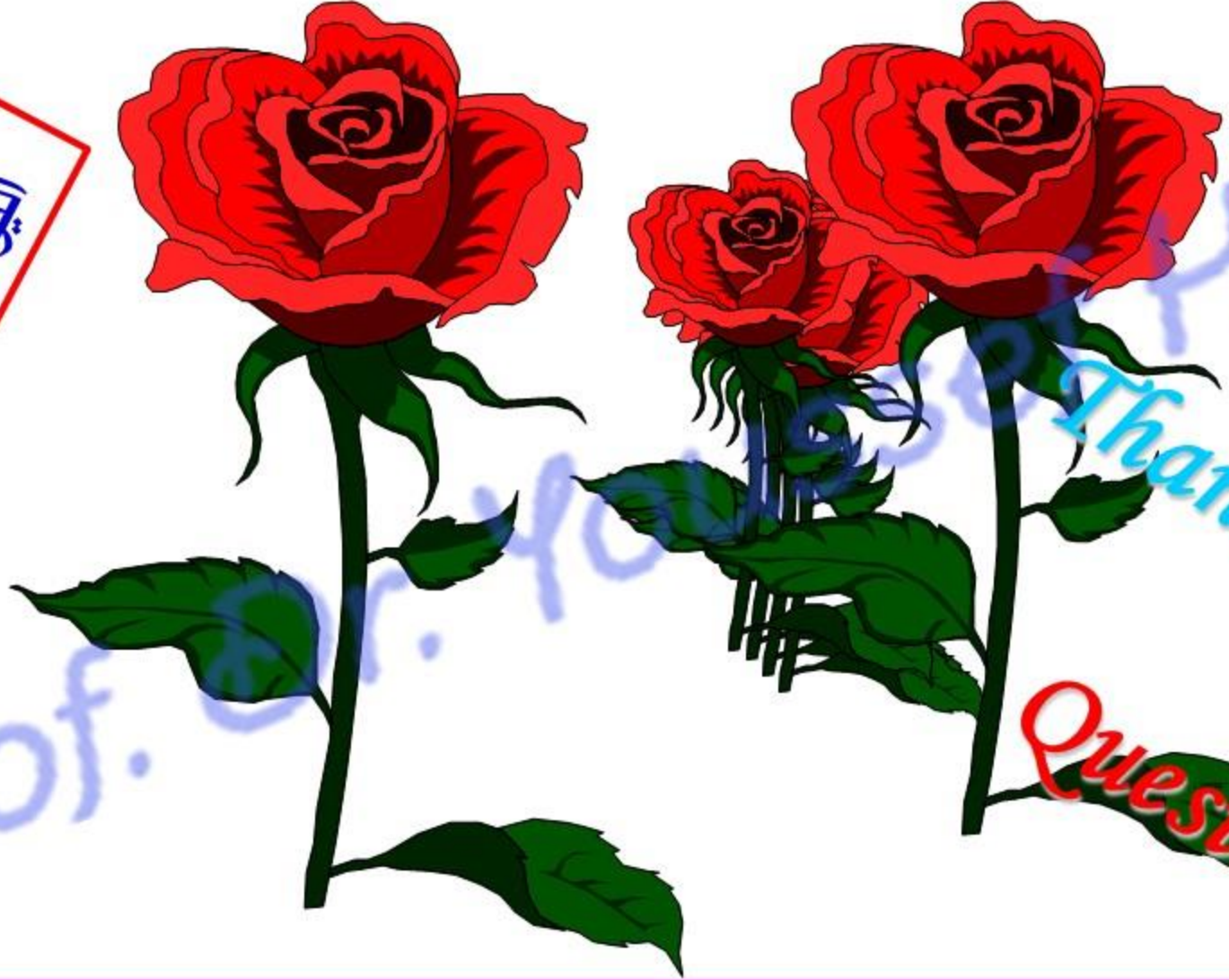
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Thank You
Questions

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