



Triangles of the Neck

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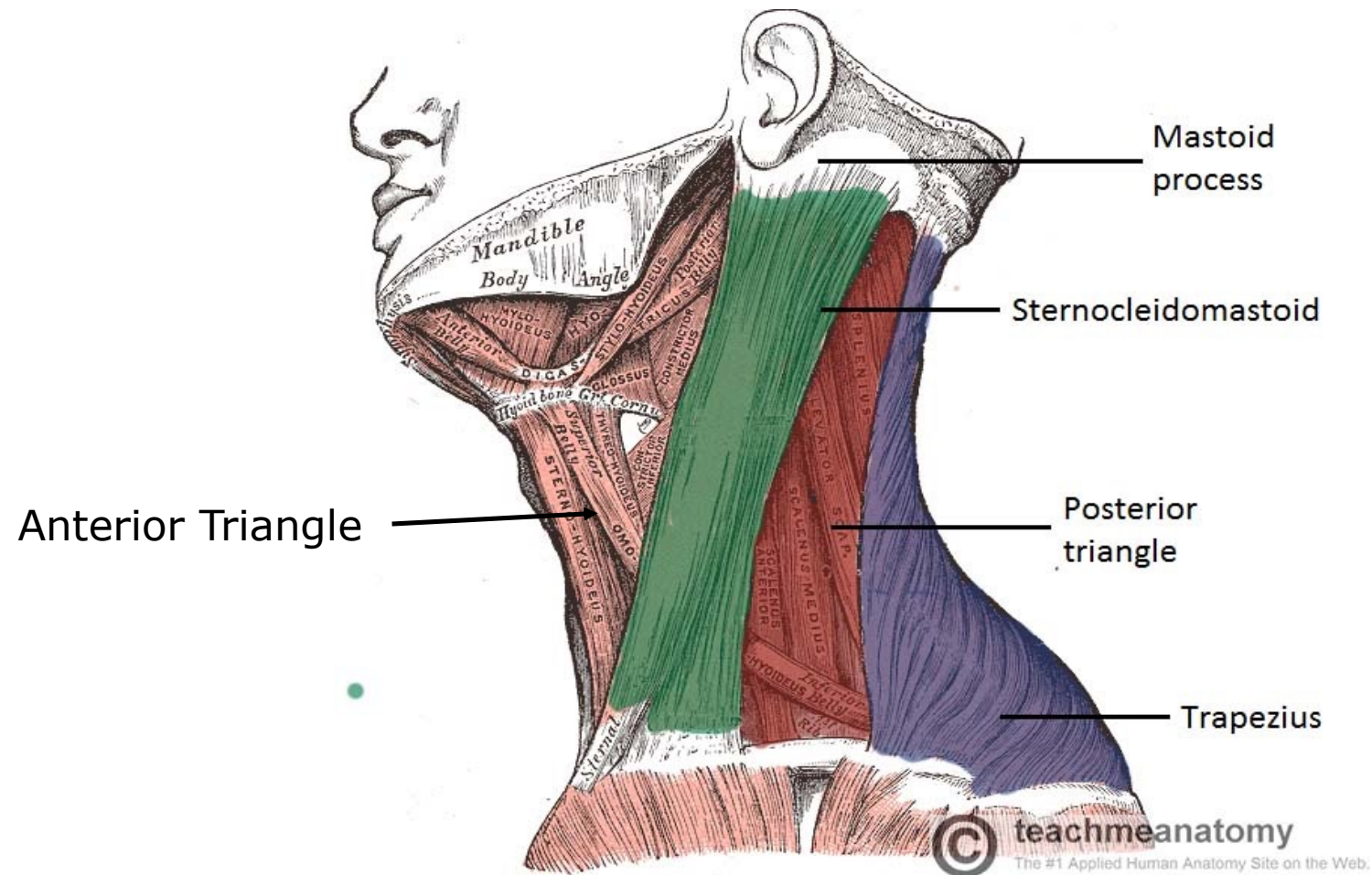
Associate professor of anatomy

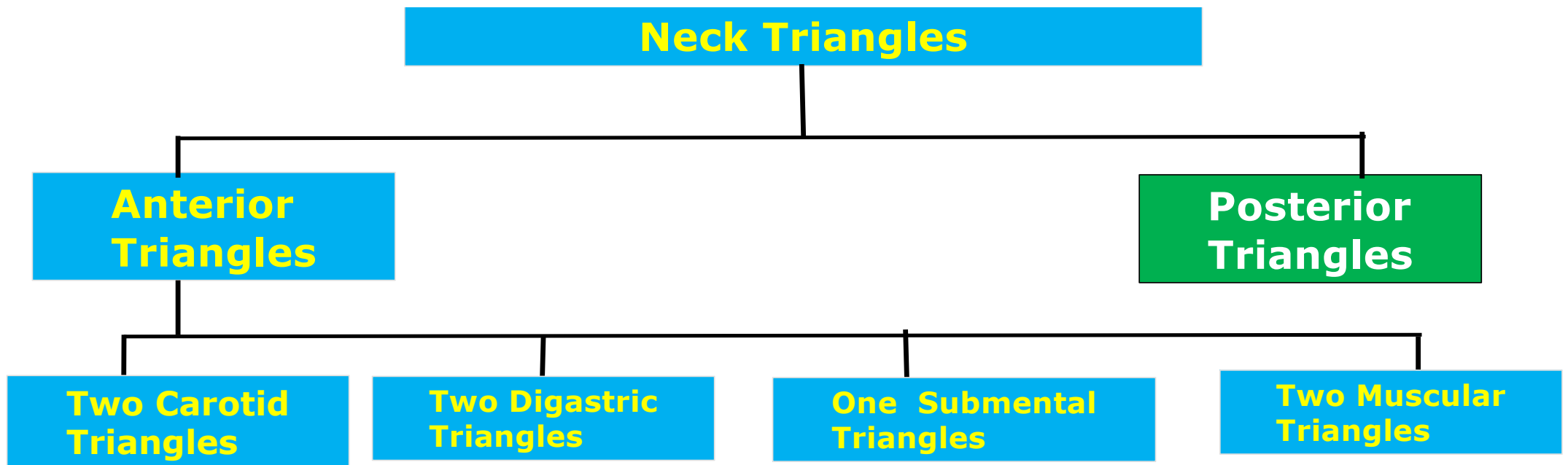
Neck Triangles

The neck is divided by



into two triangles Anterior and posterior





Posterior Triangles

Boundaries

Anterior :

Posterior:

Base :

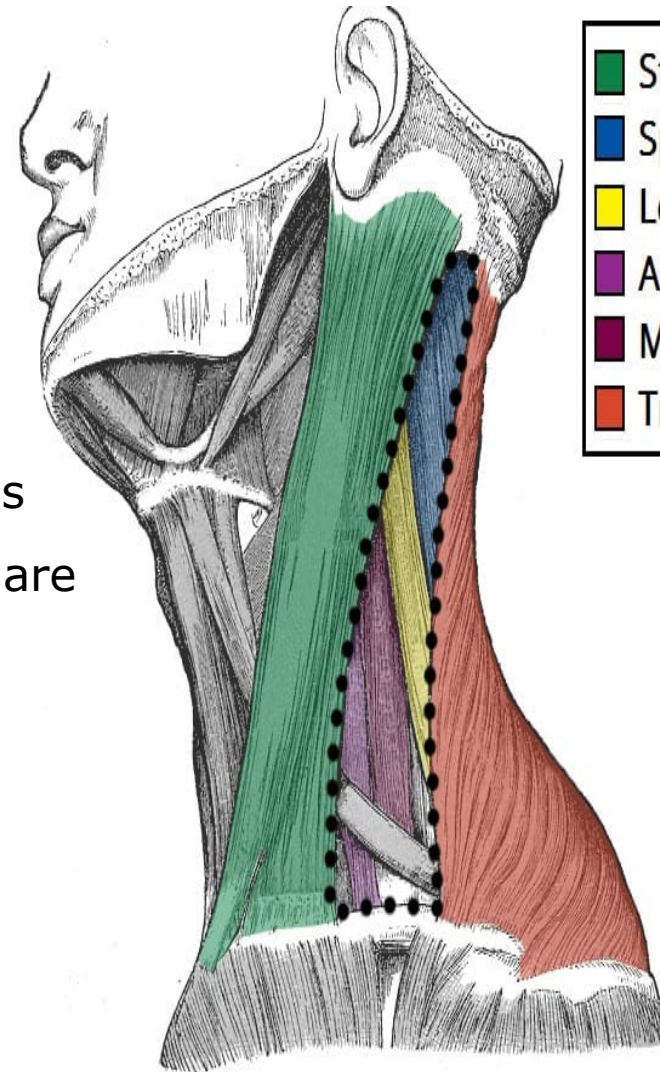
Apex:

Roof :

Floor : scalene muscles, levator scapulae, splenius capitis and **a small part of semispinalis capitis**, all are covered by the prevertebral fascia

Subdivision

The inferior belly of omohyoid subdivides the posterior triangle into



- Sternocleidomastoid
- Splenius capitis
- Levator scapulae
- Anterior scalene
- Middle scalene
- Trapezius

Contents of the Posterior Triangle :

A. Nerves :

1)

2)

A.

B.

C.

D.

 **3)**

C. Lymph Nodes :

1)

 2)

D. Muscle:



D. Arteries in the Posterior Triangle :

1)

2)

- This part extends from the ***lateral border*** of scalenus anterior to the ***lateral border*** of the first rib where it becomes the axillary A.

3)

4)



3,4 are branches from thyrocervical trunk of the first part of the subclavian A

E. Veins:

1.

2.

3.

POSTERIOR TRIANGLE - deeper

Brachial
plexus roots &
trunks

Transverse
(superf.)
Cervical A.

Suprascapular
A.

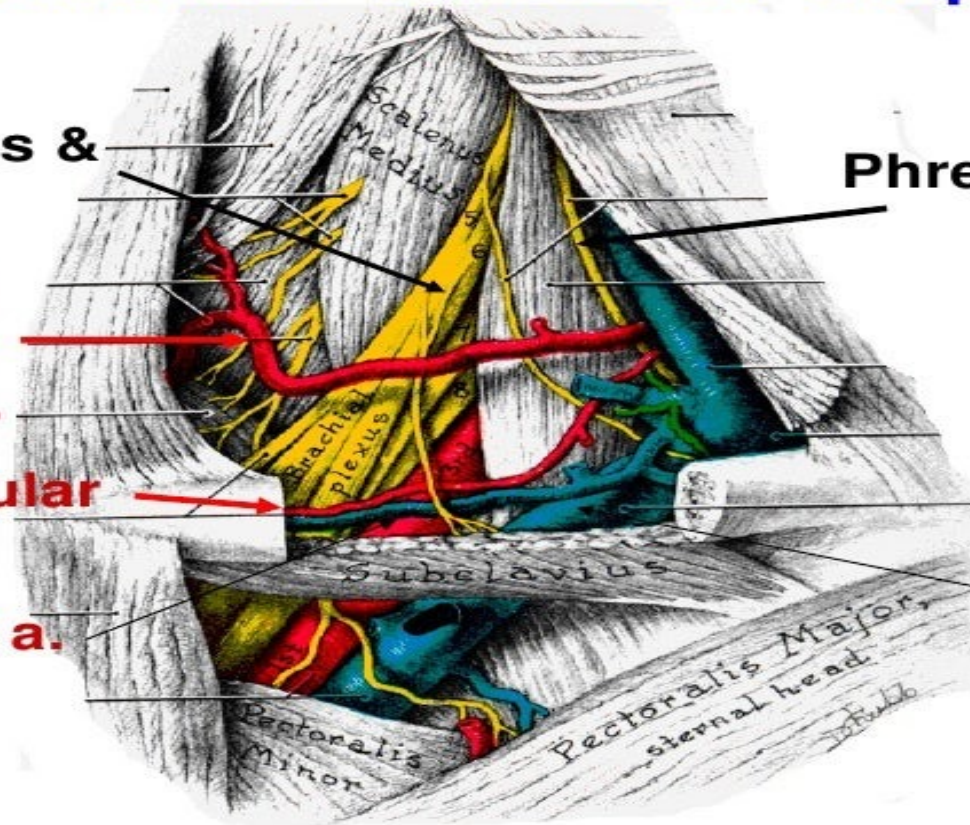
Subclavian a.

Phrenic n.

Nose



Subclavian
vein



note: Subclavian vein is not in post triangle

Anterior Triangles

 **Boundaries**

 **Anterior :**

 **Posterior:**

 **Base :**

 **Apex:**

Roof :

Subdivision:

The anterior triangle is divided by digastric muscle and superior belly of omohyoid into 3 1/2 triangles as follows:

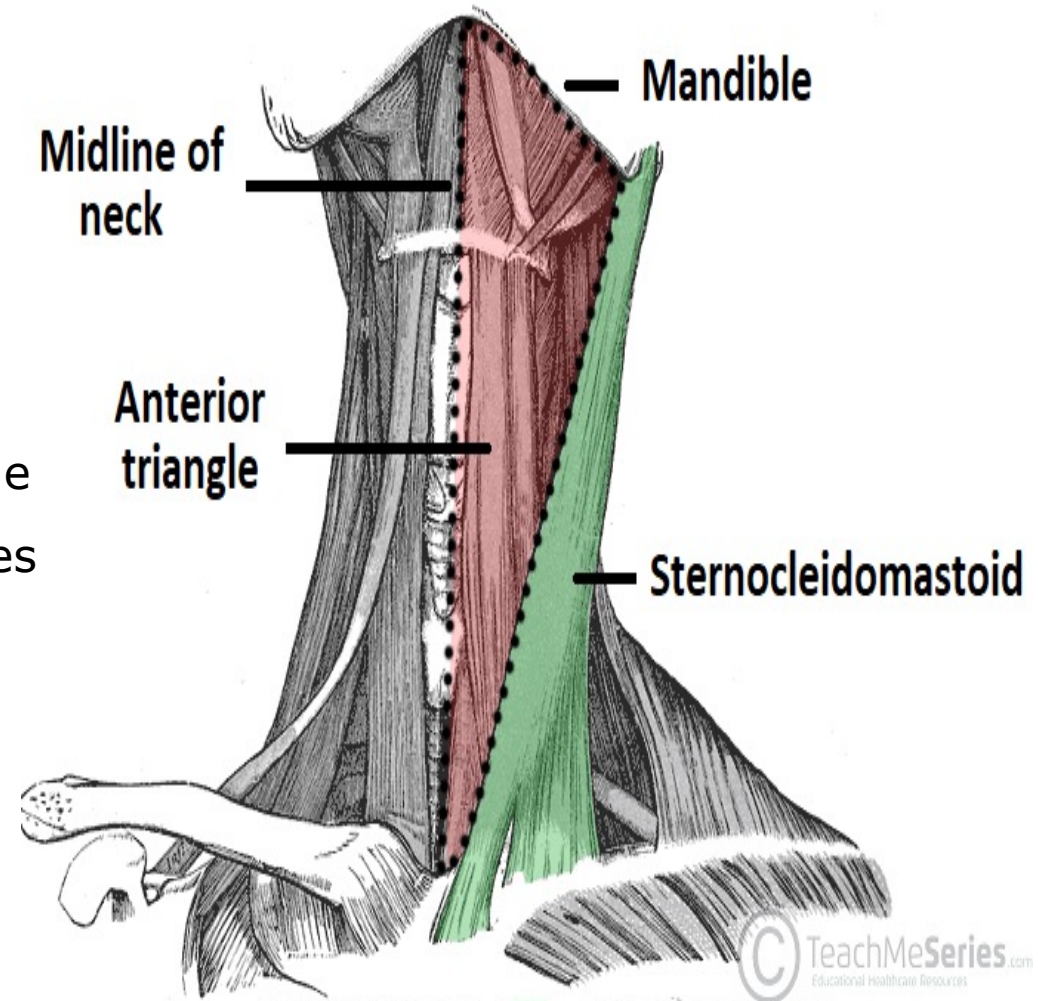
1-

2-

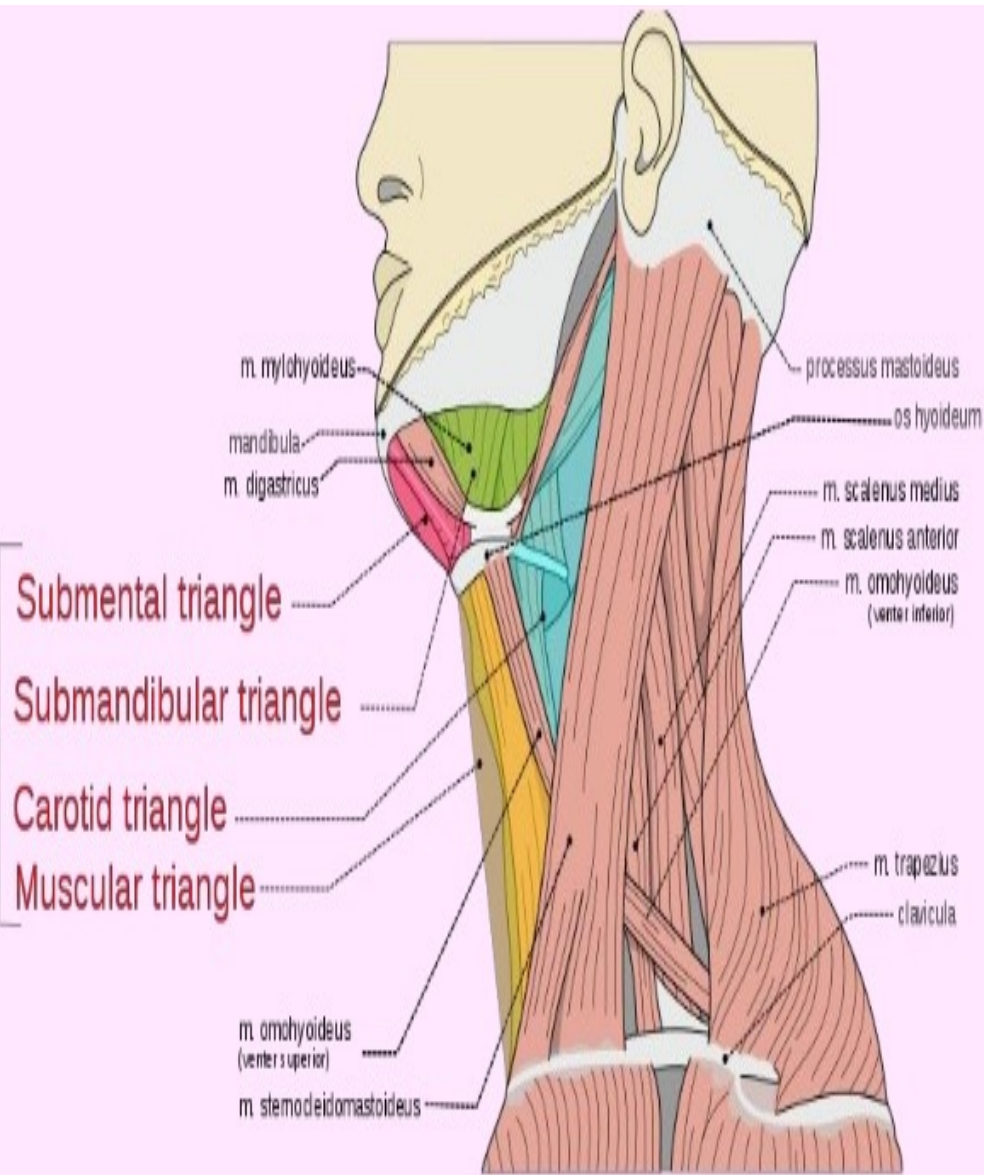


3-

4-



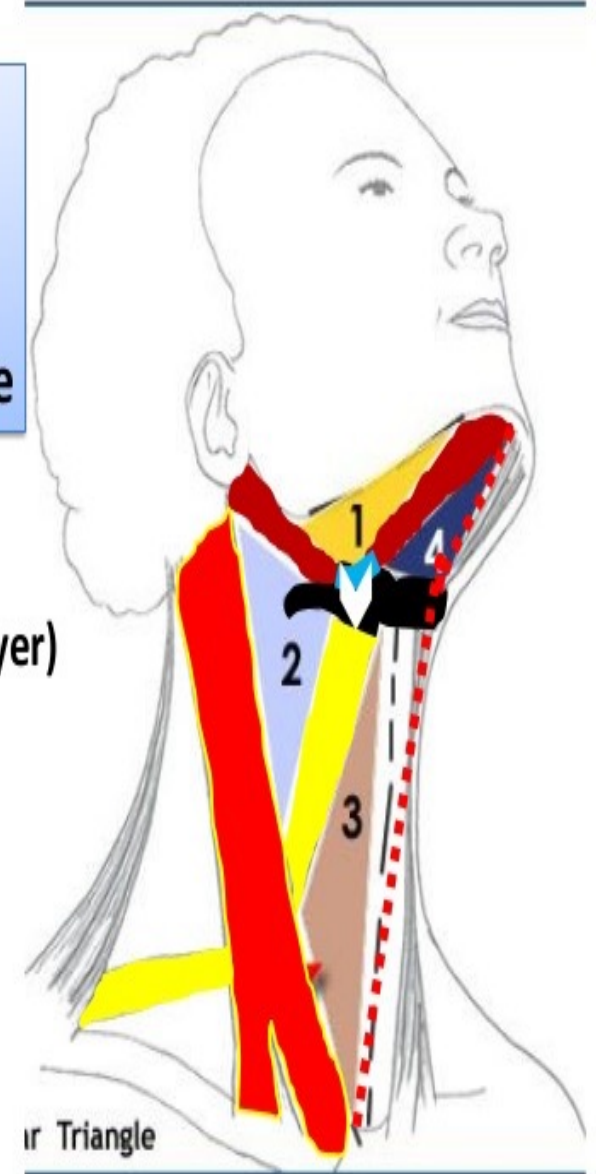
Anterior triangle



1. Digastric triangle
2. Carotid triangle
3. Muscular triangle
4. Submental triangle

Fascial sling (investing layer)

Division of
anterior triangle



I) **Digastric triangle:** (Submandibular triangle)

Boundaries:

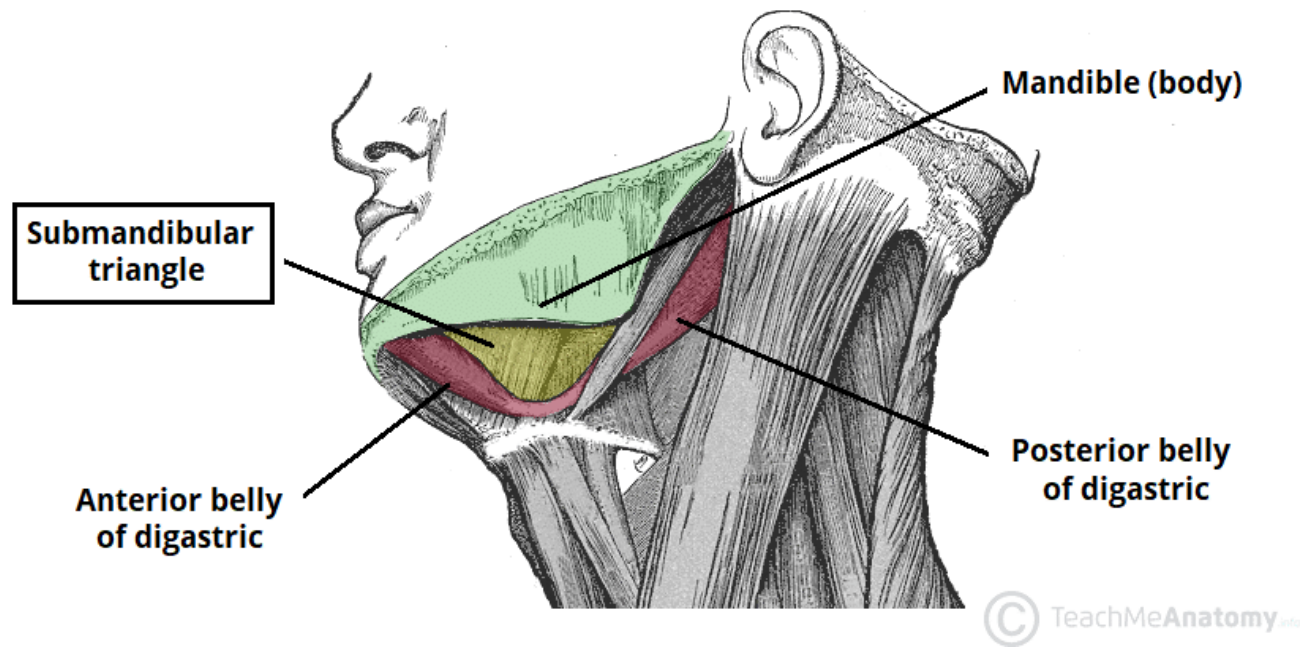
 **Above:**

 **Below and in front:**

 **Below and behind:**

 **Roof:**

▪ **Floor:**



 **Contents:** (2 glands, 2 vessels and 2 nerves)

1. Gland:

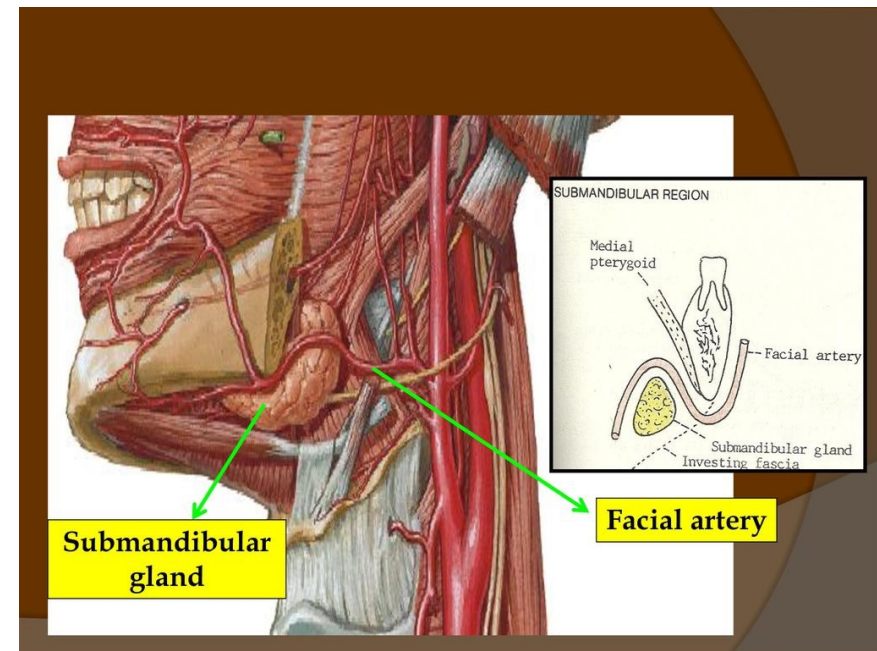
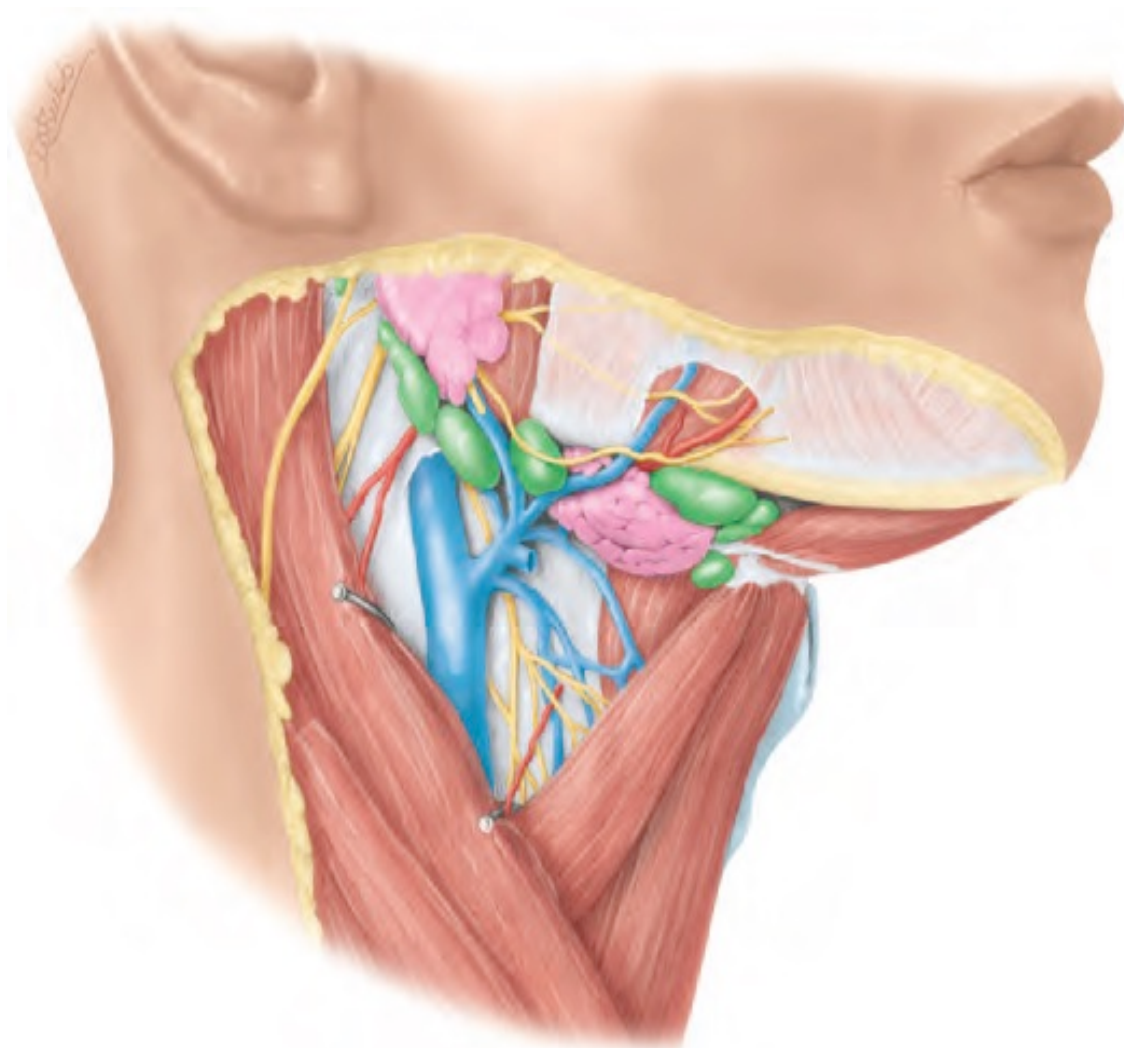


2. Vessels:

a. Facial artery: It ascends on the posterior border of submandibular gland then between the gland and the mandible. It gives its submental artery.

 **b. Anterior facial vein:** It lies superficial on the submandibular gland.

3. Nerves:



II) Carotid triangle:



Boundaries:



▪ **Posterior:**



▪ **Above:**



▪ **Below and in front:**

▪ **Roof:**

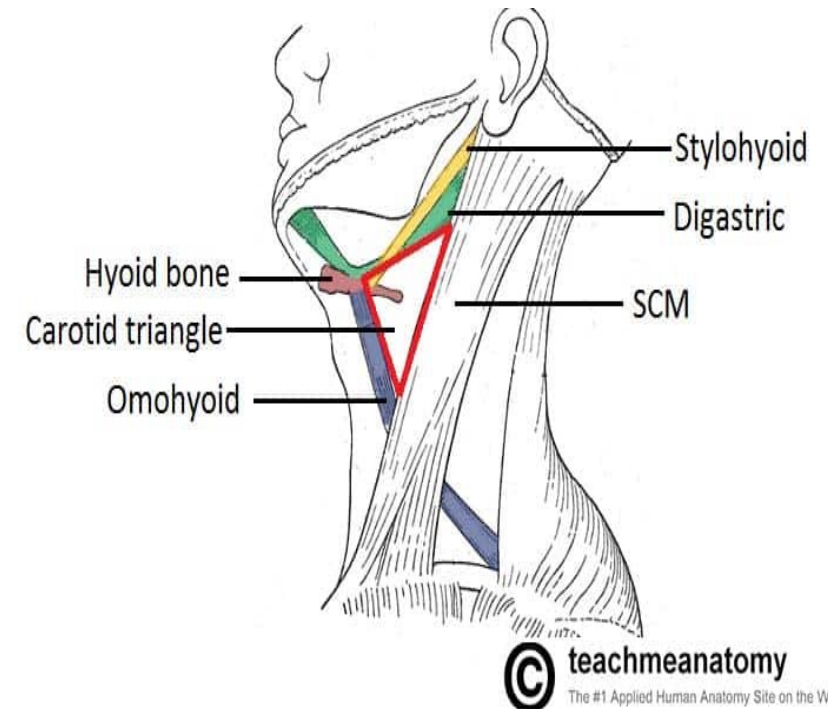


▪ **Floor:** Not mentioned



➤ **Anterior:**

➤ **Posterior:**



Contents:

A) Carotid sheath

B) Arteries: (3 carotid arteries)

1. Upper part of common carotid artery (CCA) divides opposite the upper border of thyroid cartilage into external and internal carotid arteries.

2. External carotid artery (ECA):

gives 5 branches in the triangle: 

3. Internal carotid artery (ICA):

C) Deep cervical lymph nodes: Related to

D) Veins:

1. Internal jugular vein (IJV) descends in the carotid sheath  to internal and common carotid arteries.



E) Nerves:

1.

2.

3.

4.

5.

6.

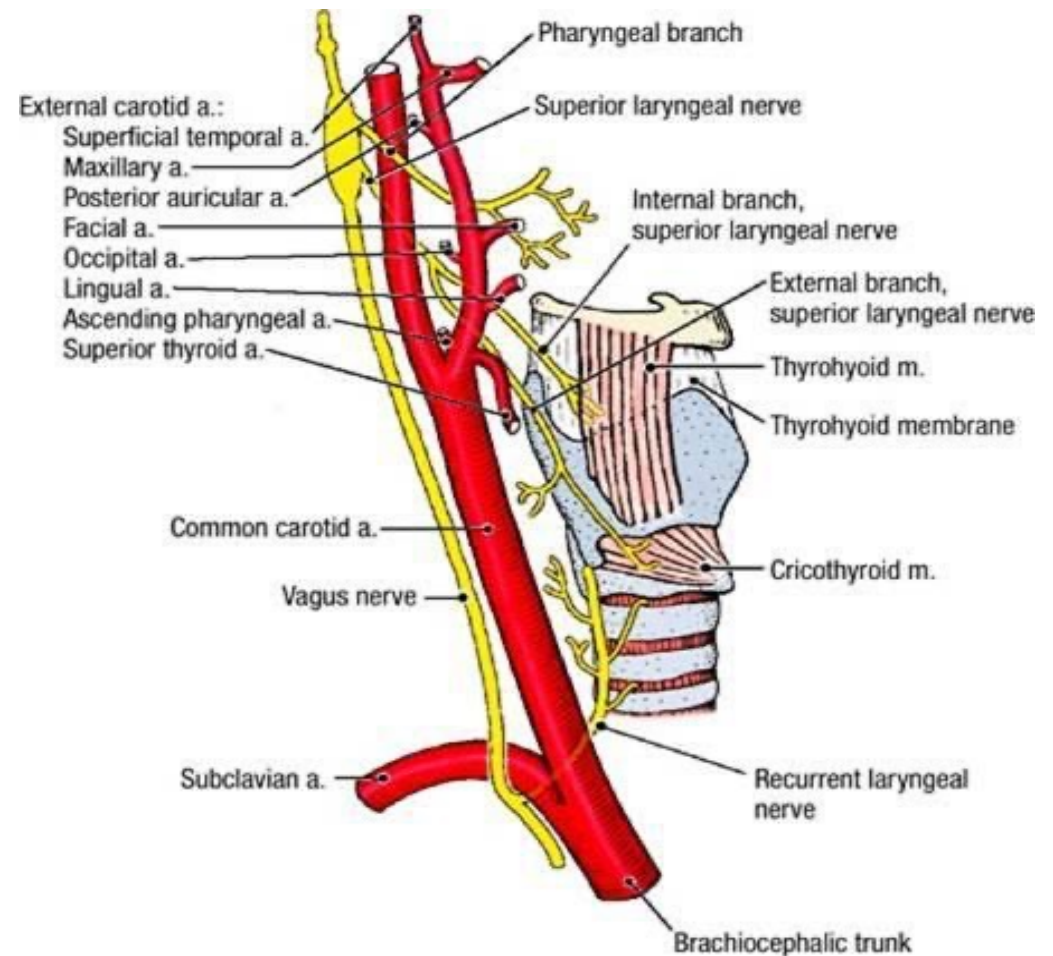
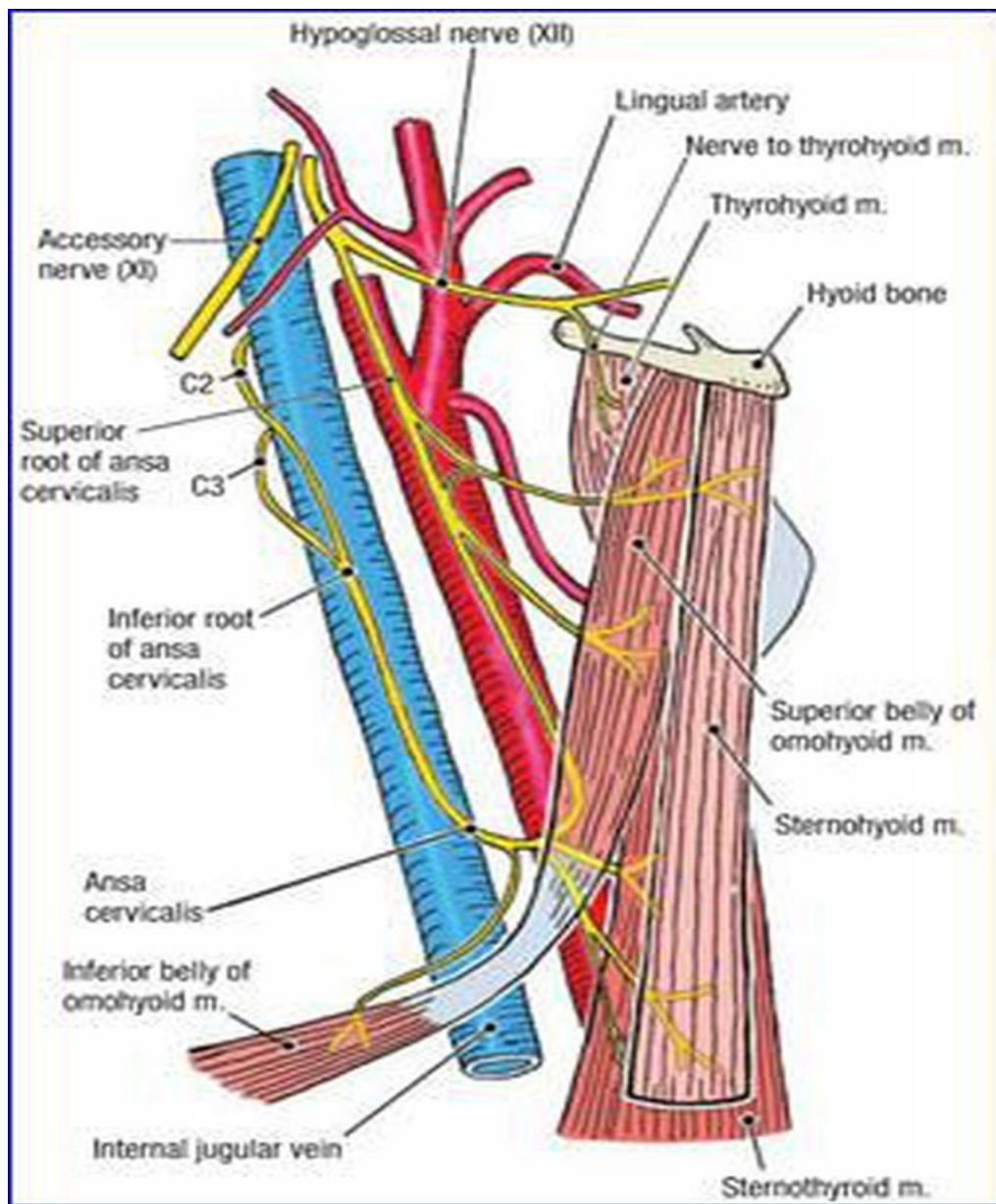
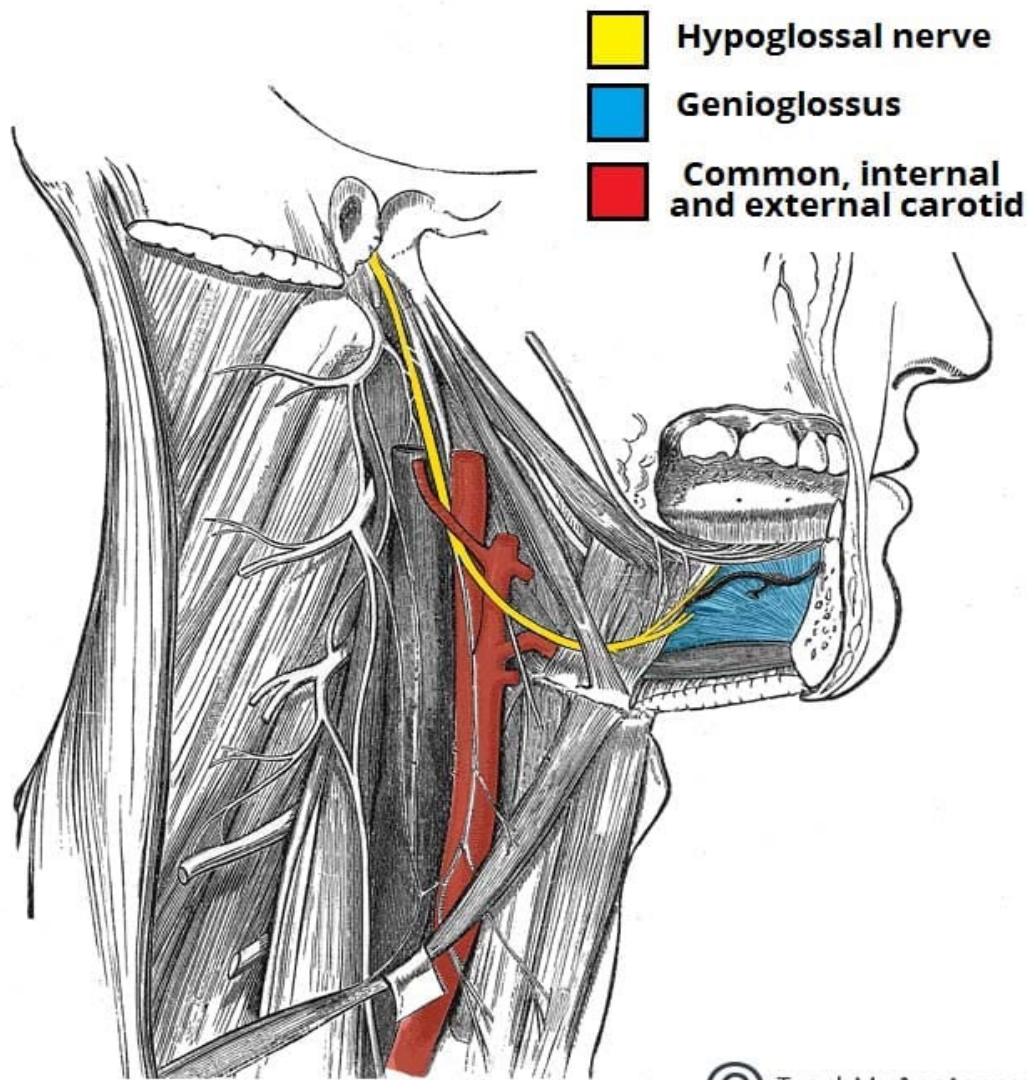


Figure 7.9. Branches of the external carotid artery and right vagus nerve (X) in the neck.



III) Muscular triangle:

Boundaries:

 1-In front:

 2- Above and behind:

 3-Below and behind:

 4-Floor:

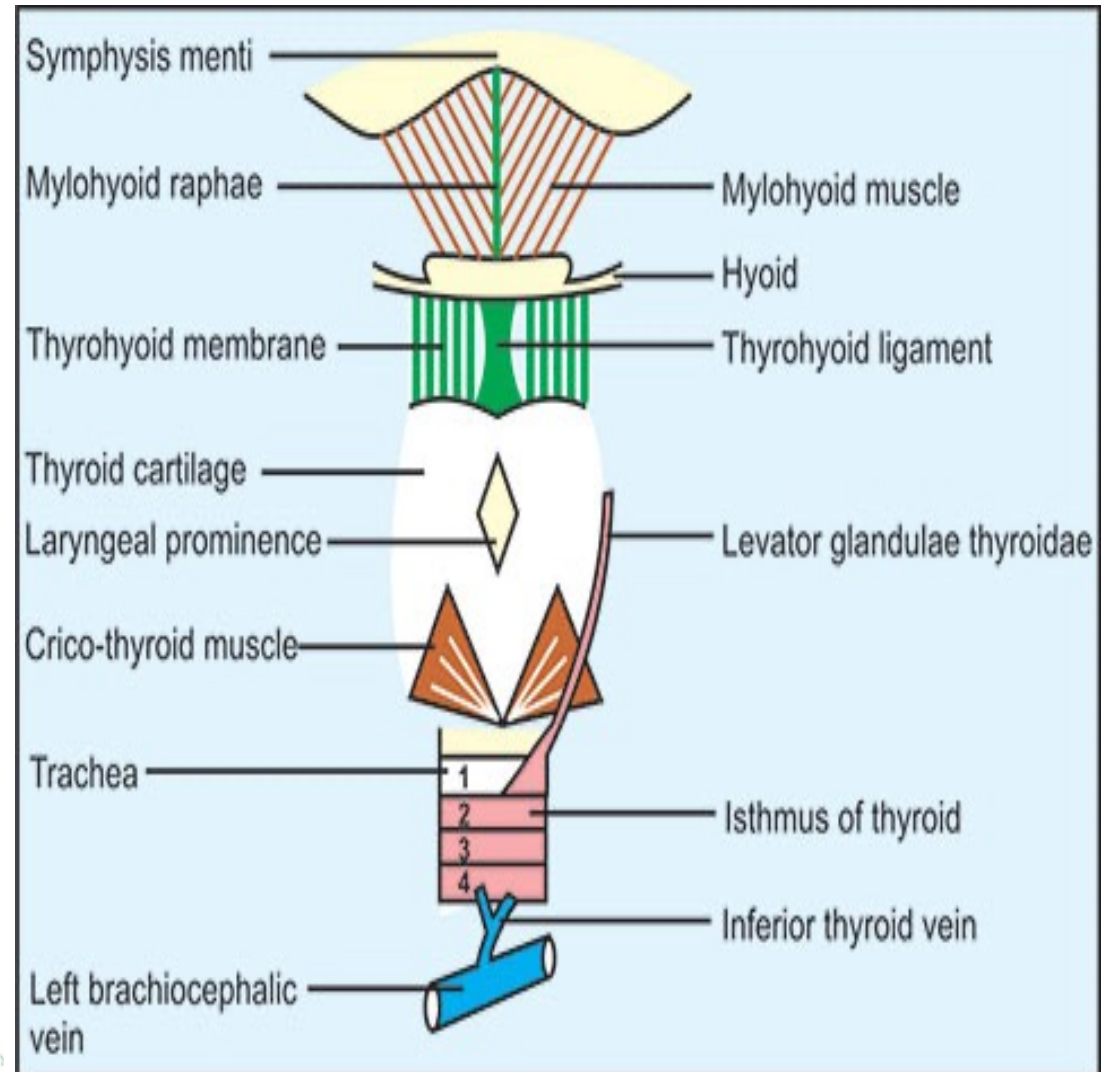
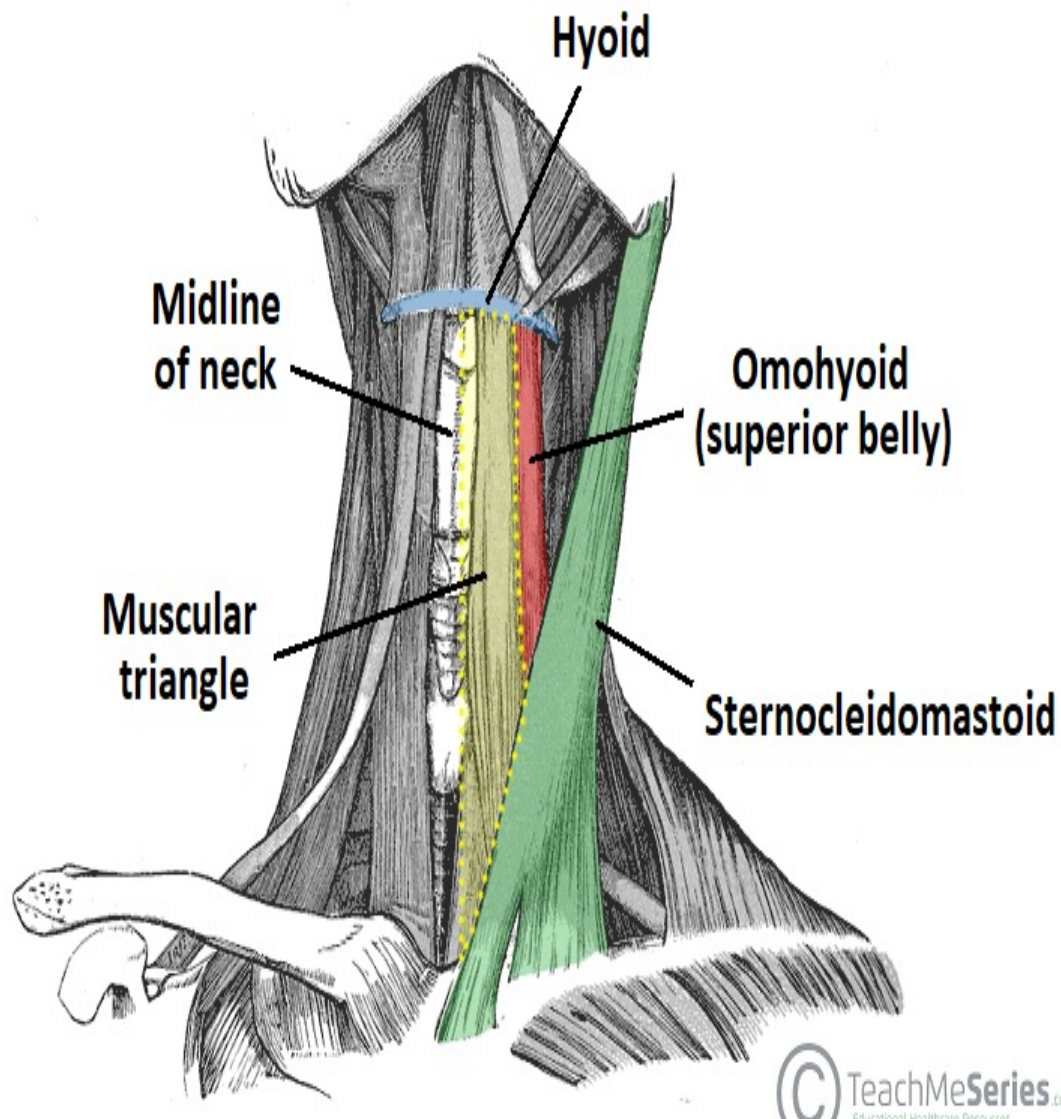
5- Roof:

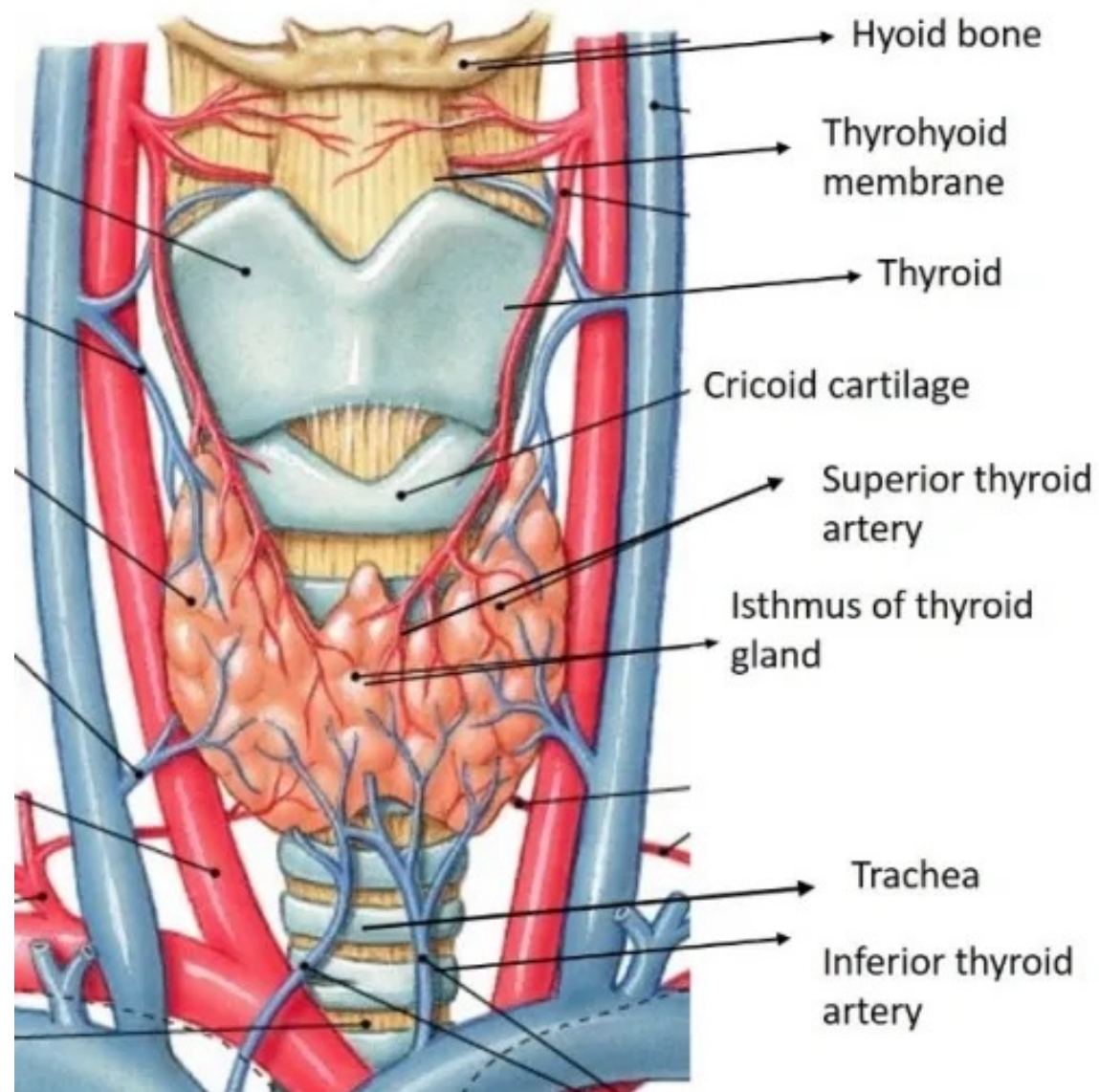
Contents:

 1. **Three infrahyoid muscles:** Sternohyoid, sternothyroid and thyrohyoid.

2.Structures in the median region of the neck below the hyoid bone:

1.Pre laryngeal and pre tracheal lymph nodes.





Not important for the EXAM.

IV. Submental Triangle:

I think you can say "not included".

- It is a single triangle, 1/2 of this triangle presents in right anterior triangle and the other 1/2 is present in the left anterior triangle.

But if you have time

Boundaries:

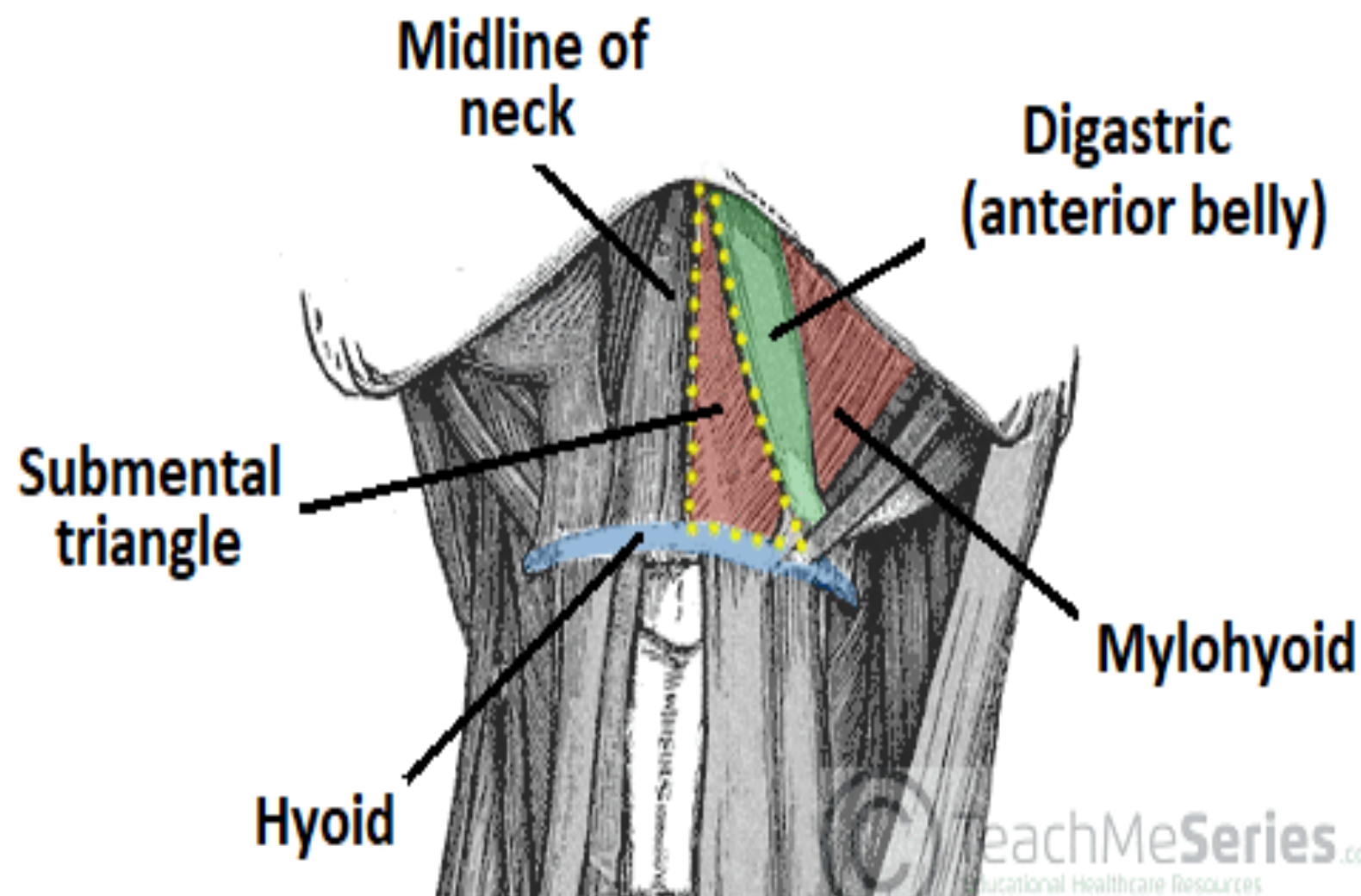
- **Base below:** Body of the hyoid bone (forms its base).
- **On each side:** Anterior belly of digastric.
- **Apex above:** Symphysis menti.
- **Floor:** Parts of both mylohyoid muscles as they meet each other in the median raphe.

Read it

Doctors.

Contents:

- ❖ Submental lymph nodes
- ❖ Submental veins which unite to form the anterior jugular vein.



Thank
you

The image features the words "Thank you" written in a black, elegant cursive script. The text has a vibrant teal drop shadow, giving it a three-dimensional appearance. The words are arranged with "Thank" on the top line and "you" on the bottom line. Surrounding the text are various teal-colored line-art illustrations, including several different shapes of leaves, sprigs of branches with small circular buds, and small four-pointed stars. The entire composition is set against a plain white background.