

ANTERIOR TRIANGLE

BY

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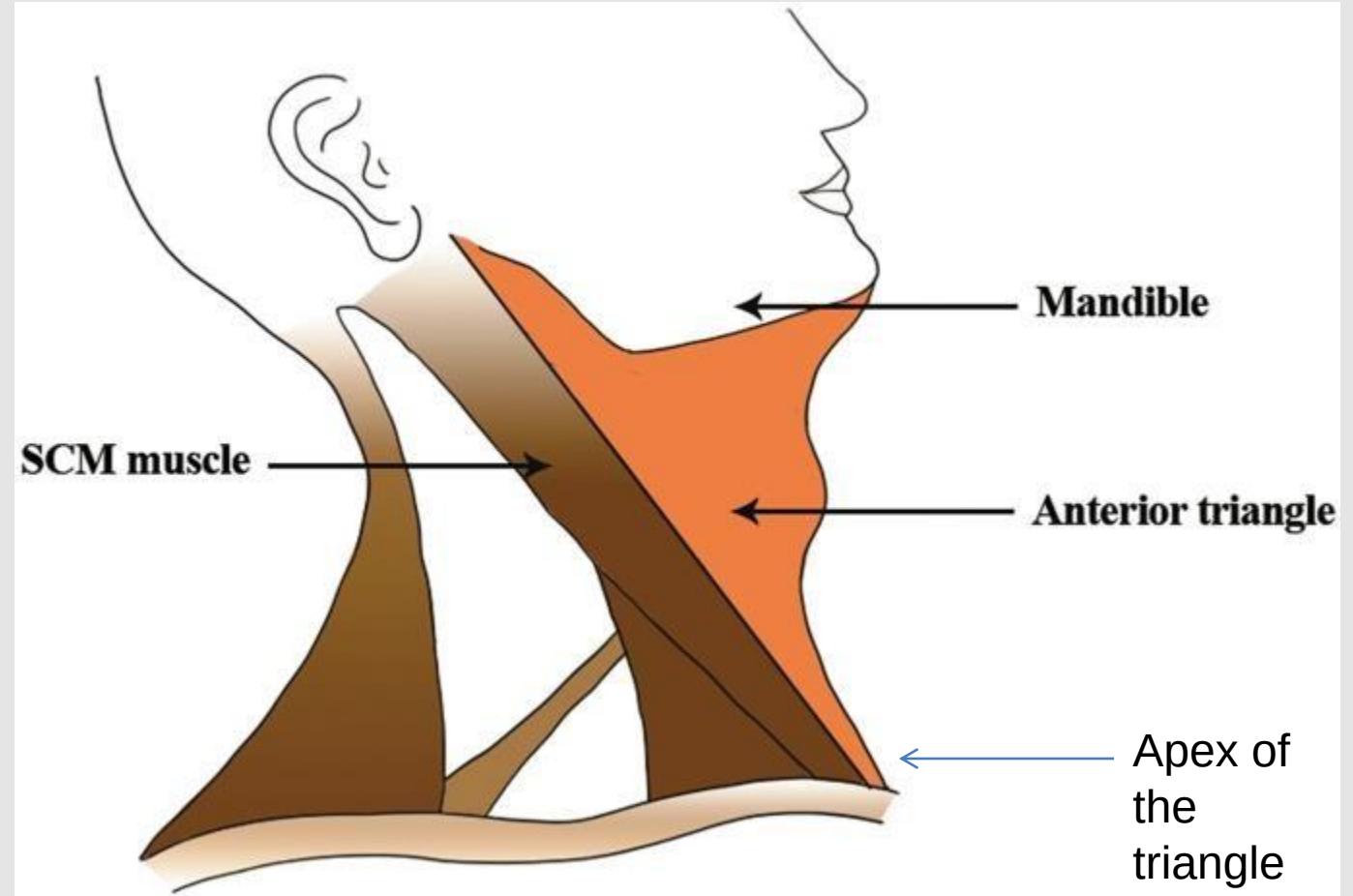
Faculty of medicine Mansoura university Egypt

Boundaries:

- **Anteriorly** → the midline of the neck.

- **Posteriorly** → the anterior border of the sternomastoid muscle.

- **Superiorly (base):** the lower border of the mandible (base).



Roof

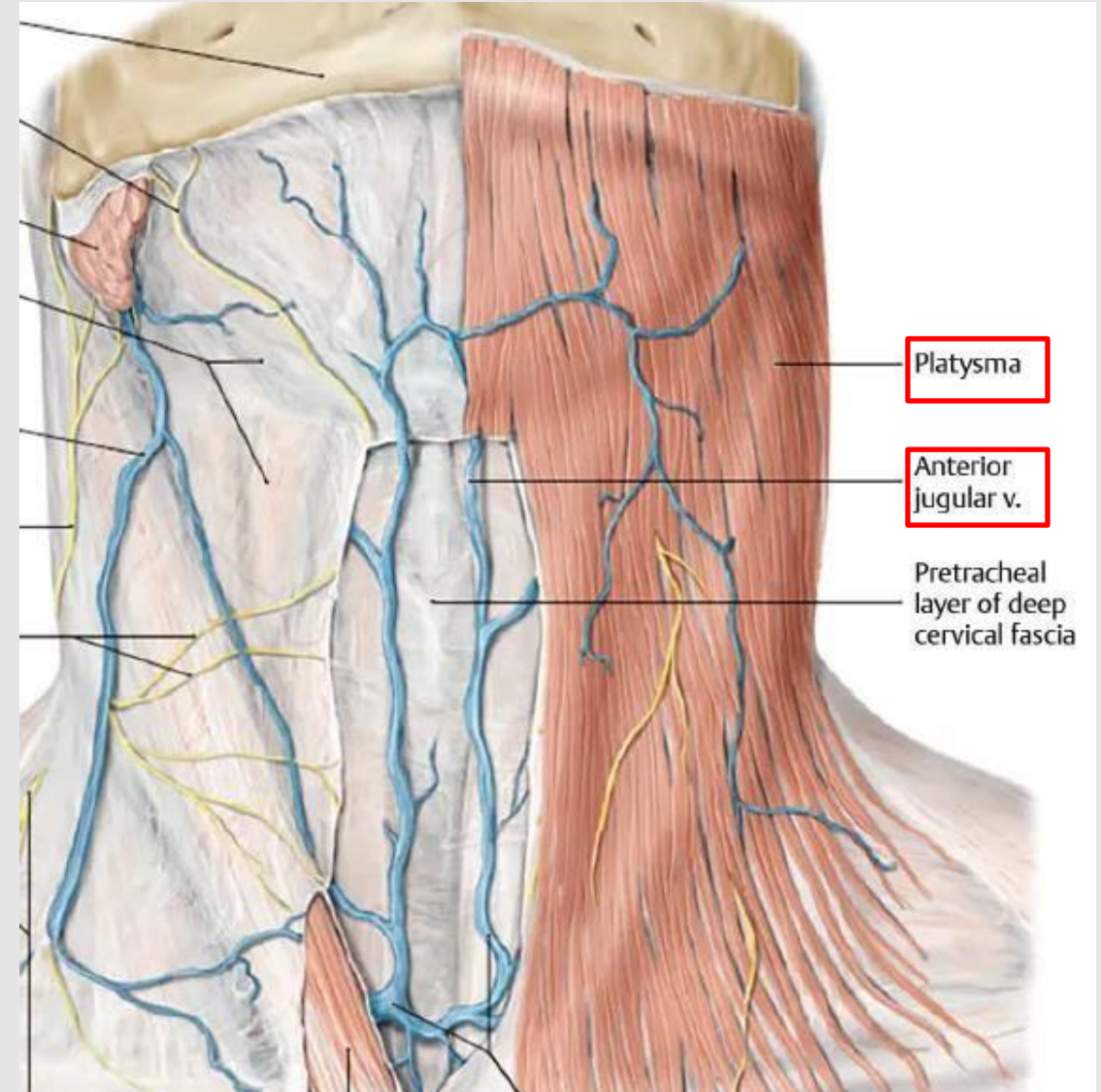
➤ skin

➤ The superficial fascia
containing:

✓ platysma muscle

✓ anterior jugular veins

➤ The deep cervical fascia
(investing layer).



Divisions:

divided by: superior belly of
omohyoid & digastric

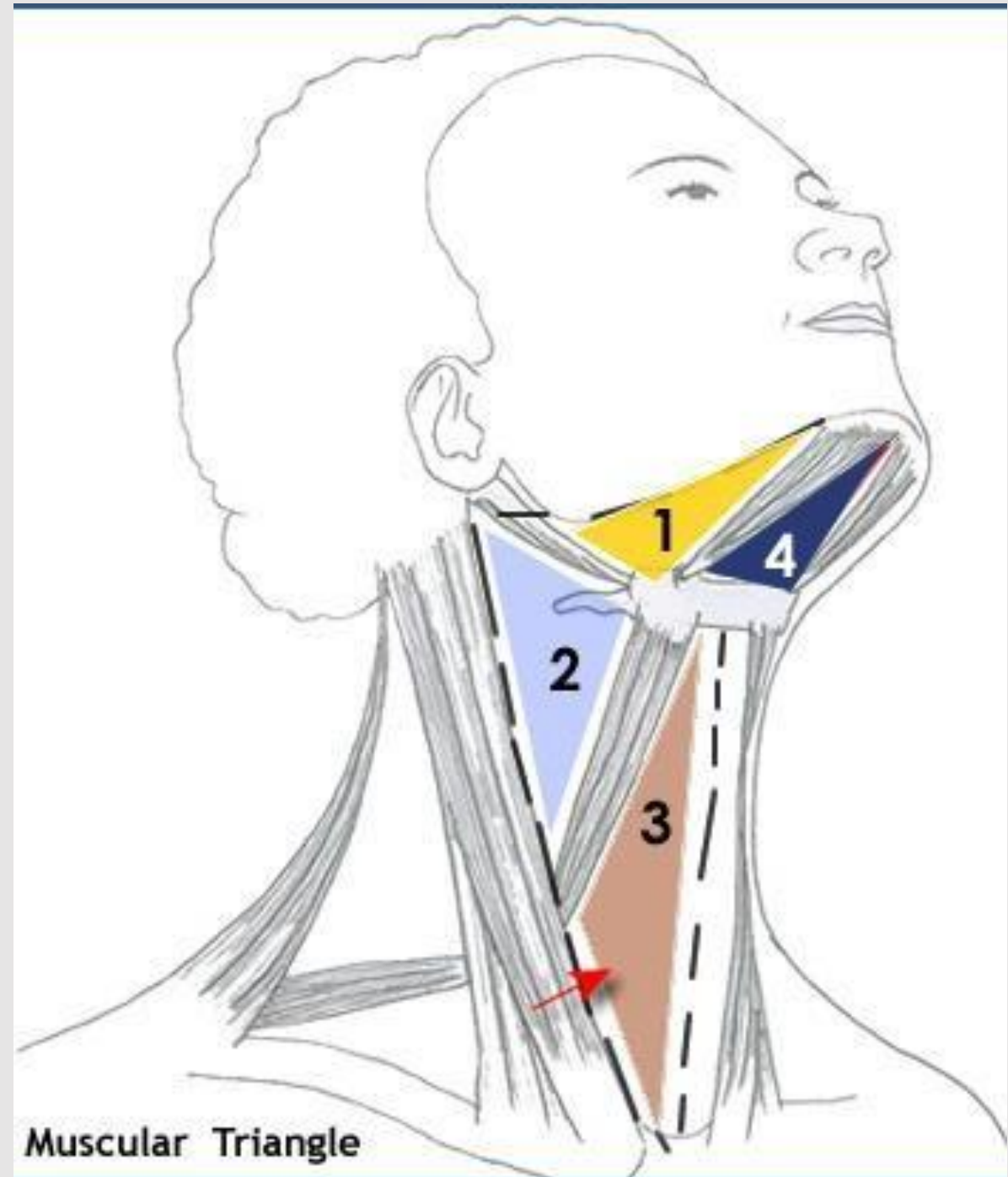
to **4 small triangles:**

4 → Submental.

1 → Submandibular (digastric).

2 → Carotid.

3 → Muscular = thyroid



Submental triangle

- **Boundaries:**

- **Apex** → symphysis menti.
- **Base** → the body of the hyoid bone.
- **On each side** → anterior belly of the digastric muscle.
- **Floor** → the mylohyoid muscle.

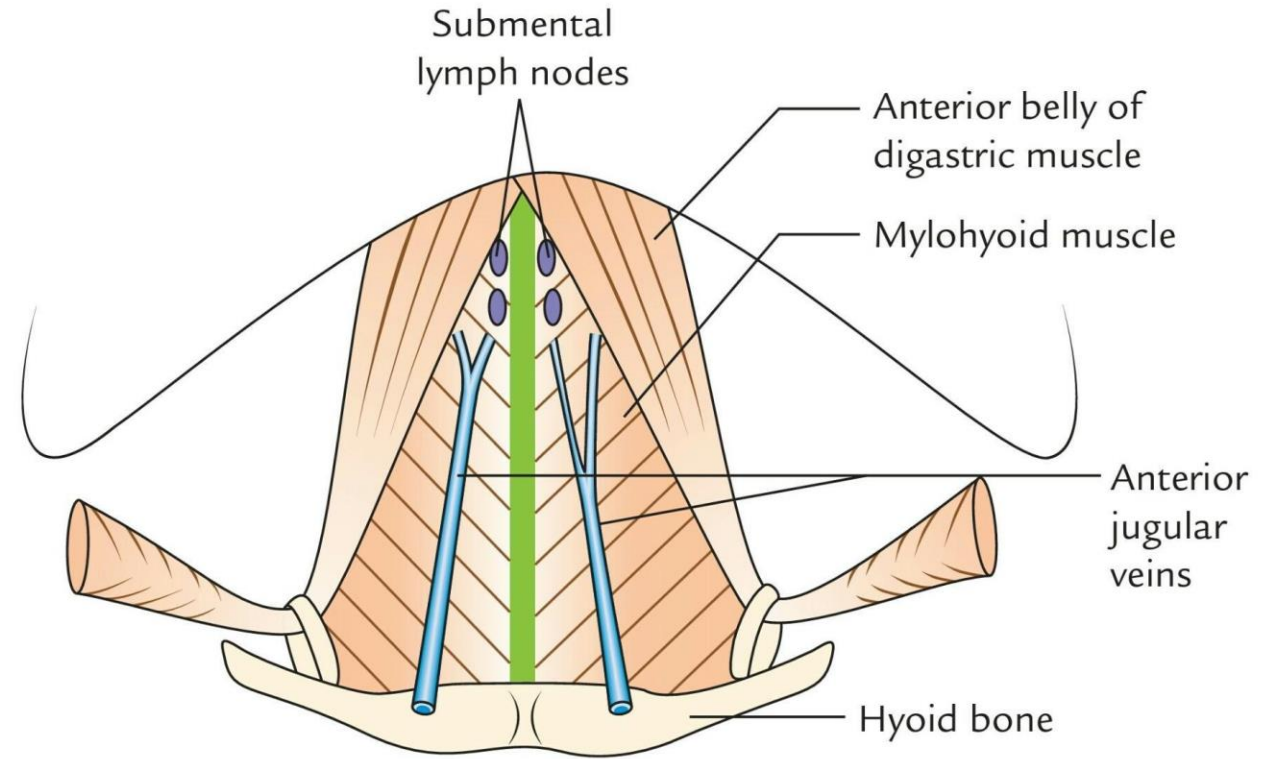
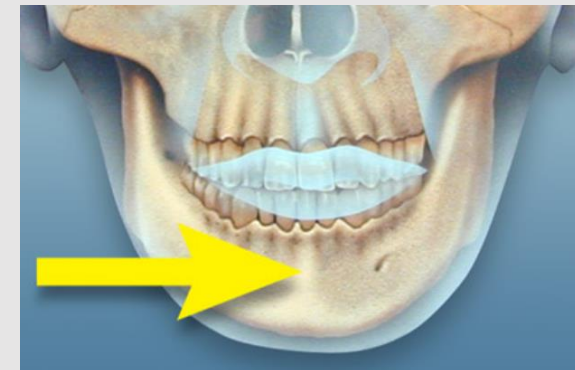


Fig. 6.4 Boundaries and contents of the submental triangle.



symphysis menti

Contents of submental triangle:

- Artery → submental artery.
- Vein →
 - submental vein
 - beginning of anterior jugular vein.
- Nerve → mylohyoid nerve.
- L.N. → submental lymph nodes.

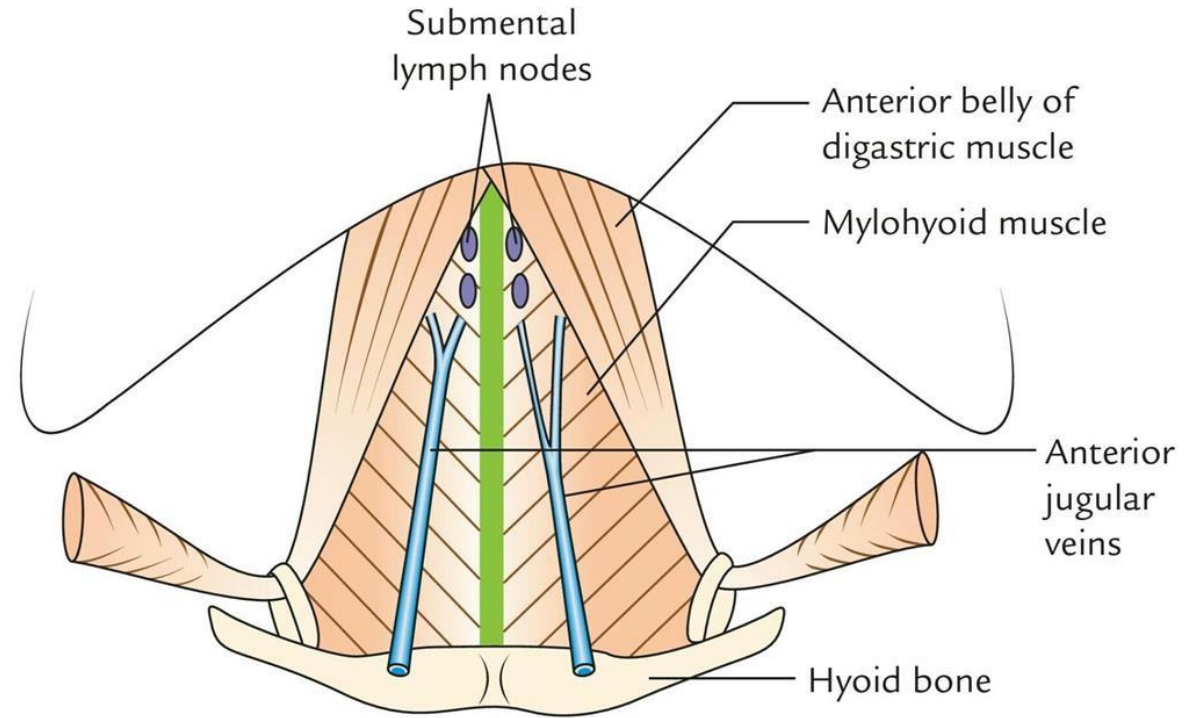
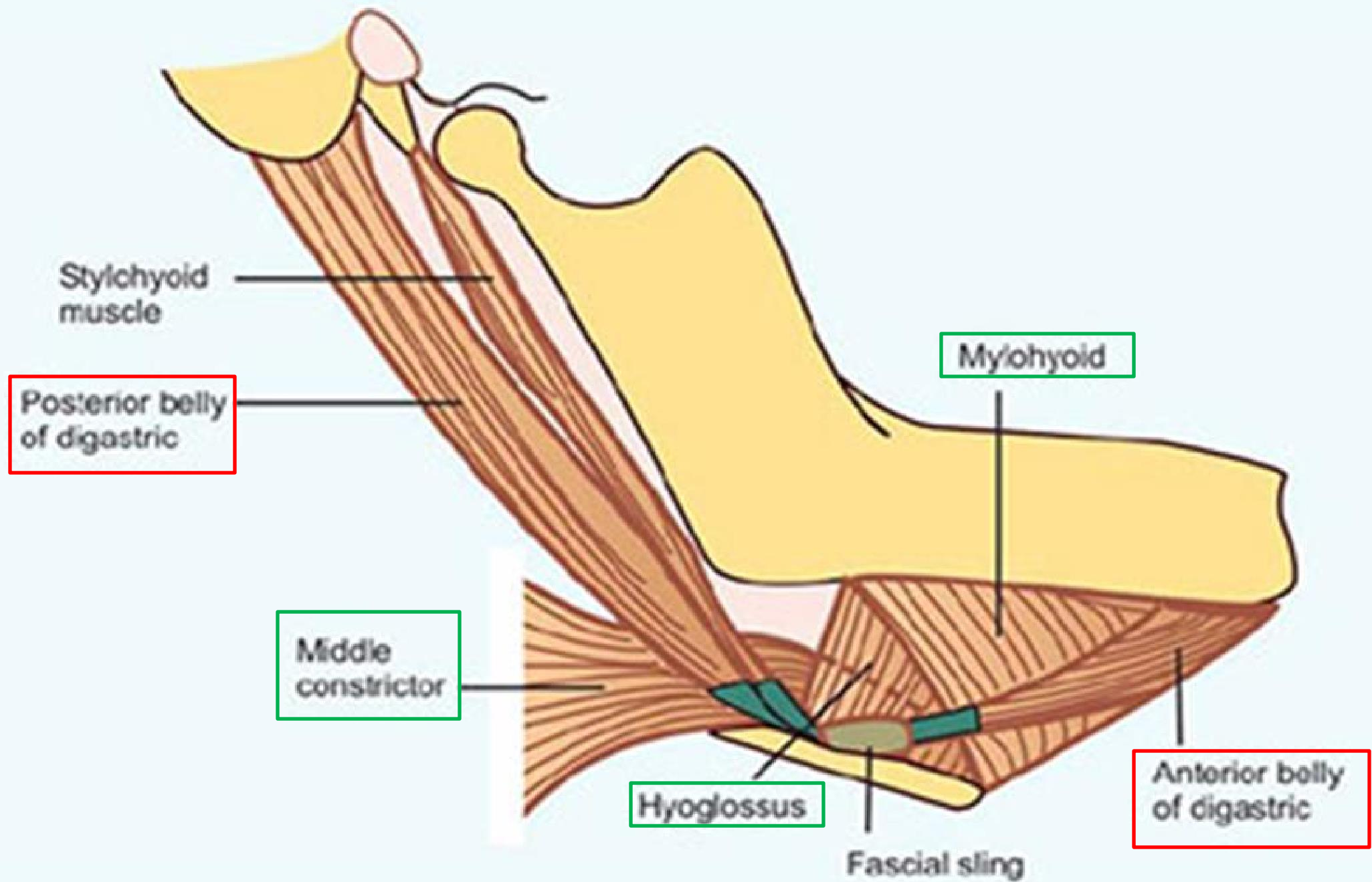


Fig. 6.4 Boundaries and contents of the submental triangle.

Submandibular (digastric) triangle

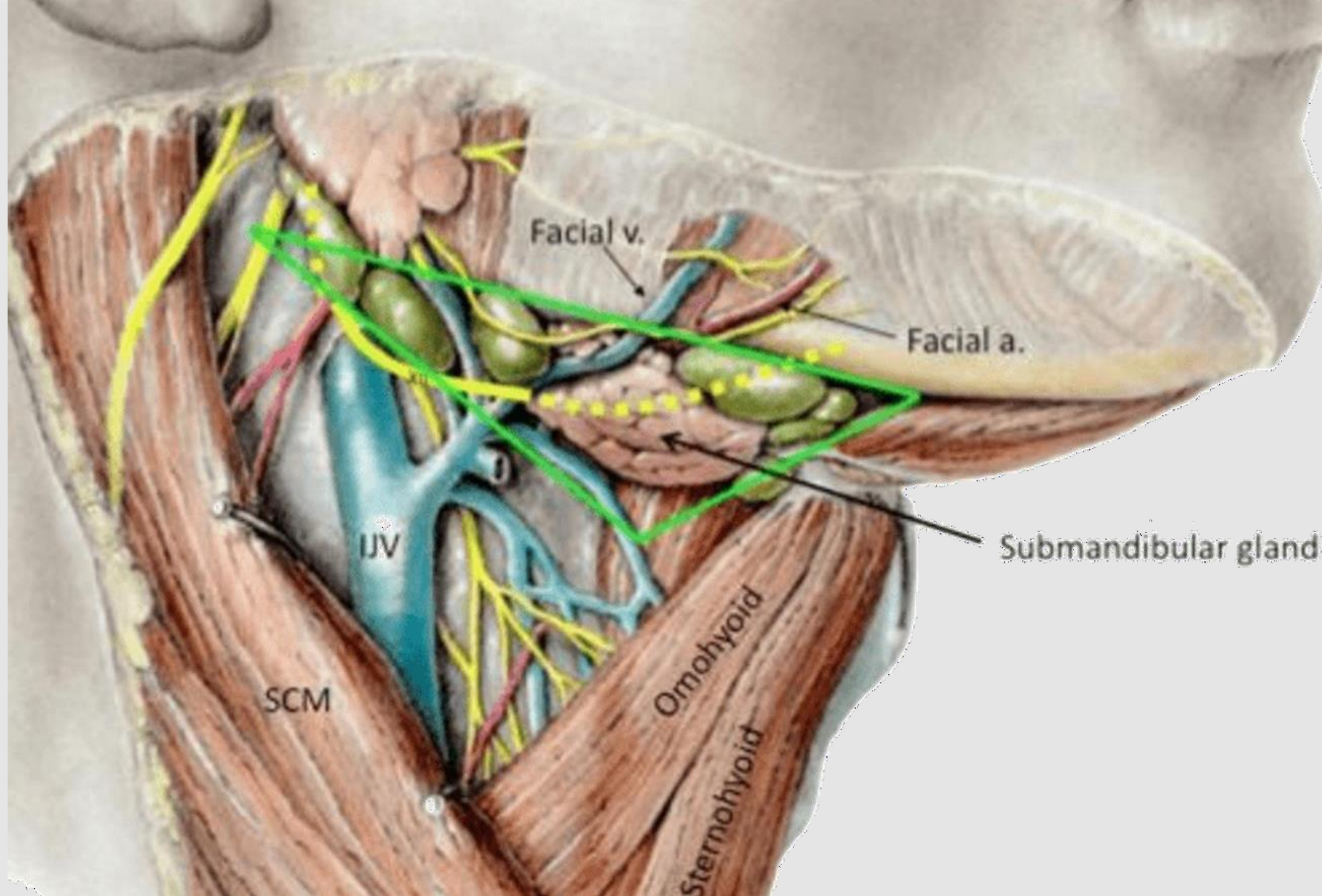
Boundaries:

- **Above** → base of the mandible.
- **Anteriorly** → anterior belly of digastric muscle.
- **Posteriorly** → posterior belly of digastric muscle.
- **Floor** →
 - **Mylohyoid**
 - **hyoglossus**
 - **middle constrictor.**



Submandibular (digastric) triangle Contents:

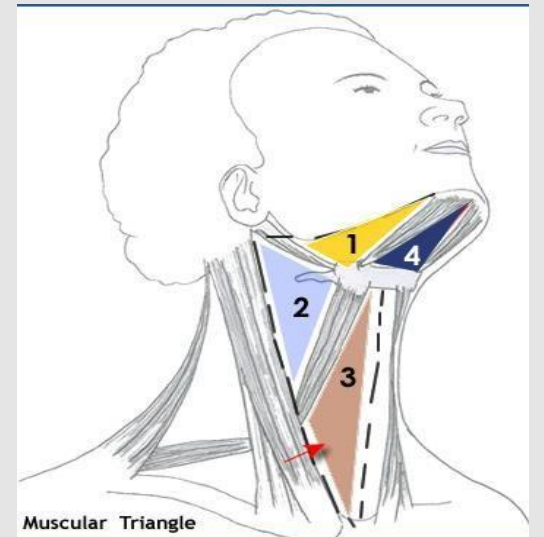
- **Artery** → the facial artery.
- **Vein** → anterior facial vein.
- **Nerve** → hypoglossal nerve.
- **L.N.** → submandibular lymph nodes.
- **Gland** → submandibular salivary gland

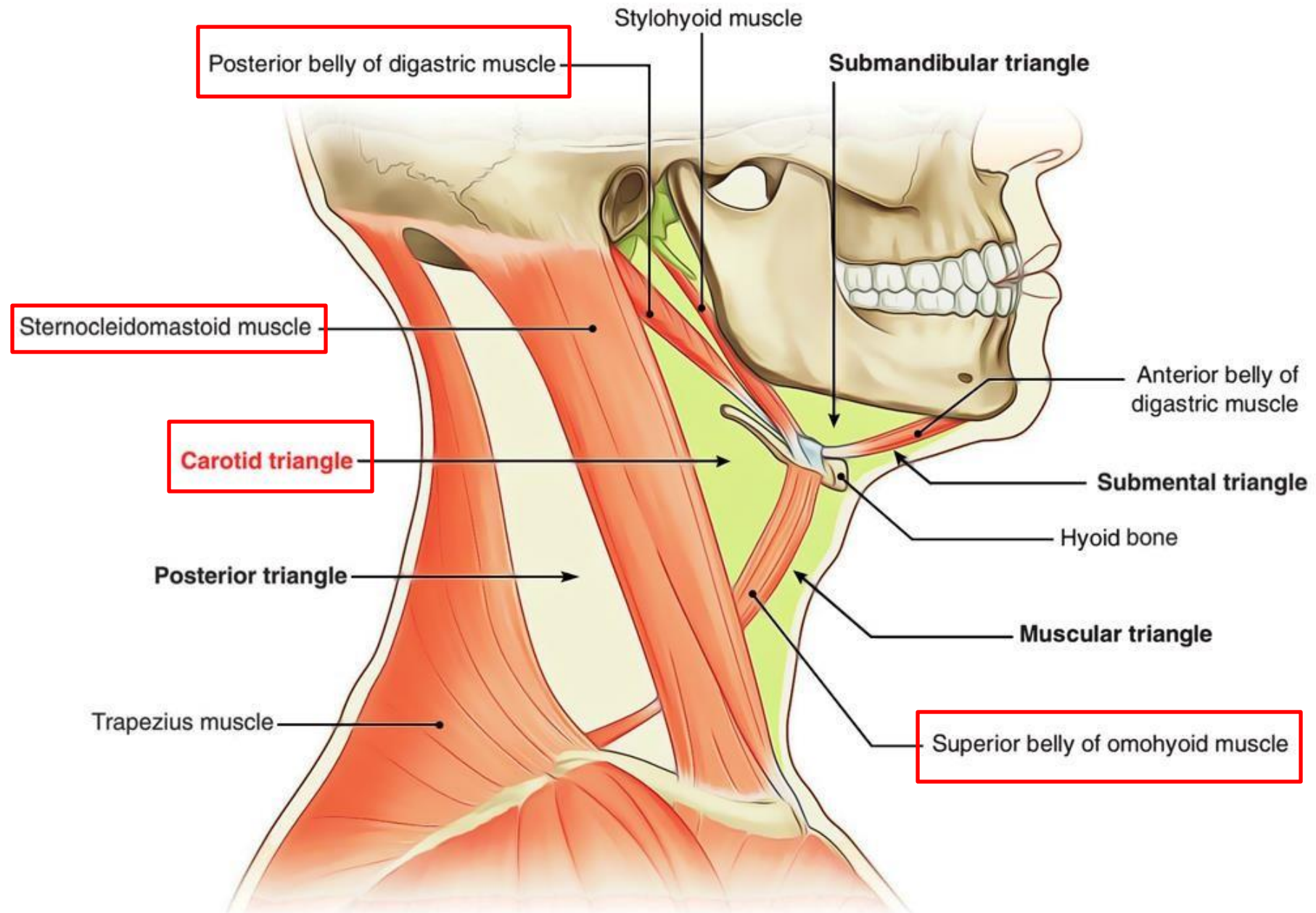


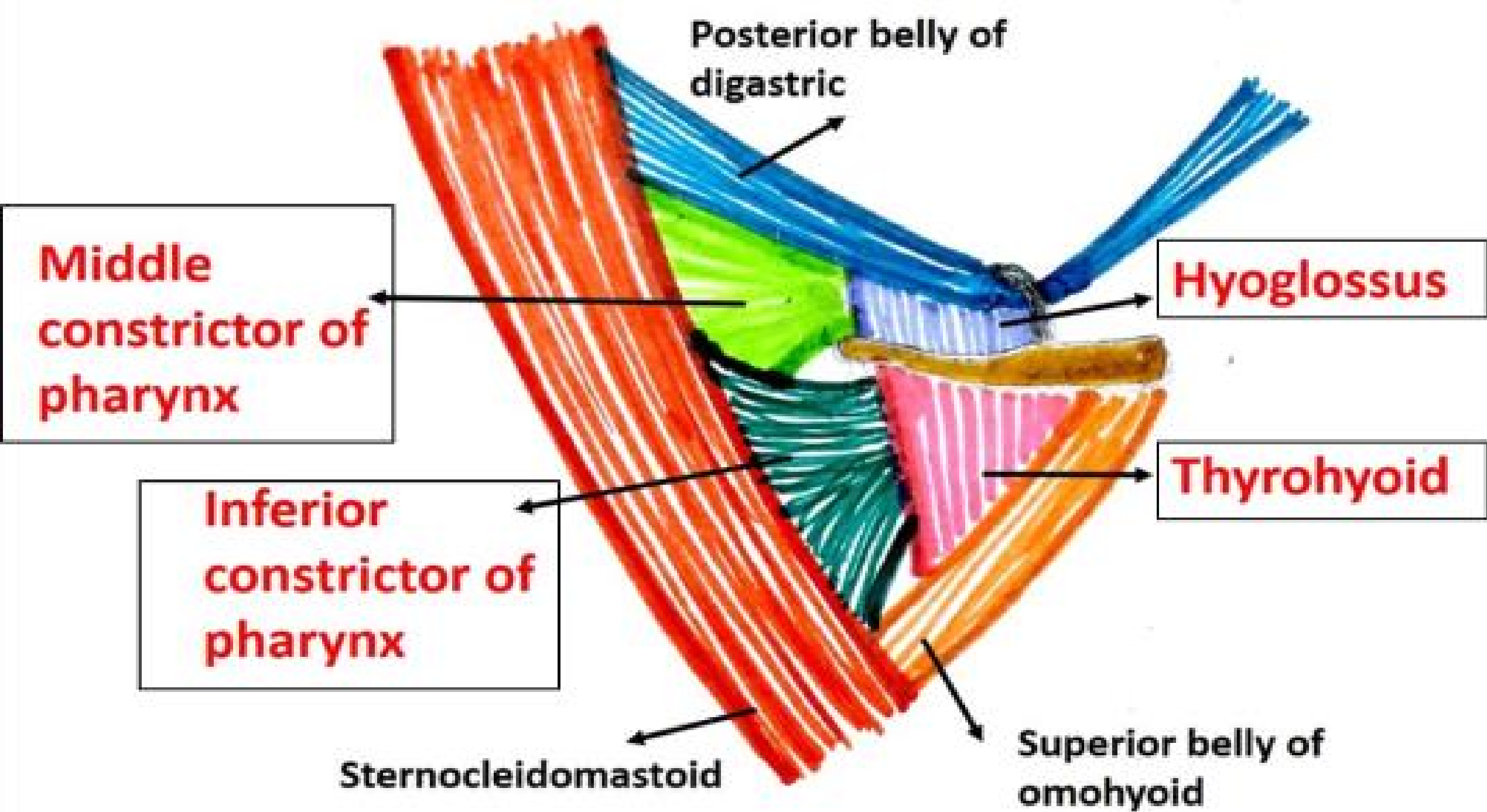
Carotid triangle (2)

Boundaries

- **Infront & above** → the posterior belly of the digastric muscle.
- **Infront & below** → the superior belly of the omohyoid.
- **Behind** → the anterior border of the sternomastoid muscle.
- **Floor** →
 - thyrohyoid & hyoglossus (anteriorly)
 - middle & inferior constrictors (posteriorly)







CONTENT

- **Arteries →**

- CCA, ICA, ECA and 5

pharyngeal – superior thyroid

lingual - facial – occipital)

- **L.N. →**

- ✓ deep cervical lymph nodes

(along the internal jugular vein).

Veins →

internal jugular vein.

Nerves →

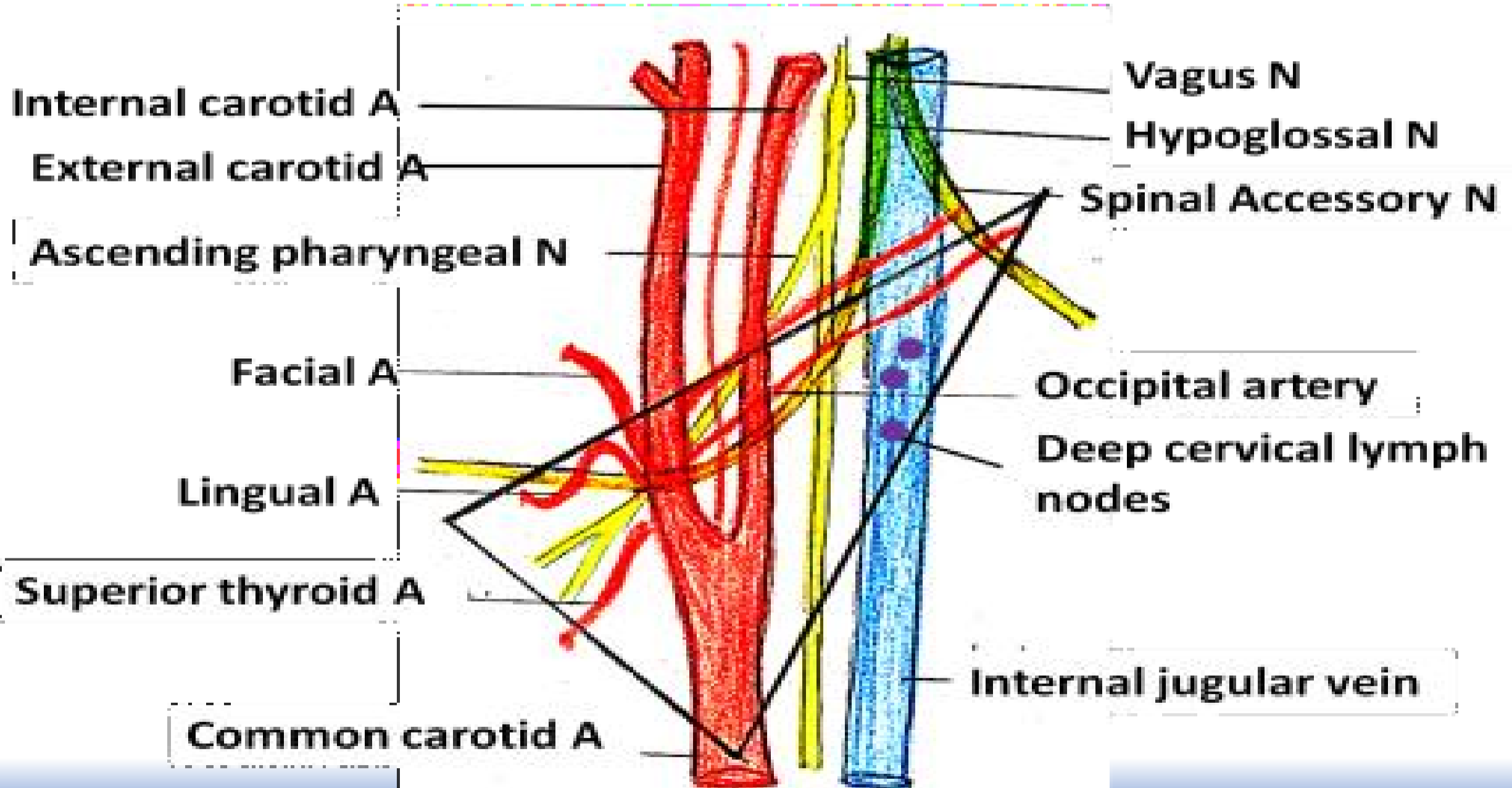
last 4 cranial nerves (9,

10, 11, 12).

Ansa cervicalis.

9→ glossopharyngeal.
10→ vagus.
11→ accessory.
12→ hypoglossal.

Contents of Carotid Triangle



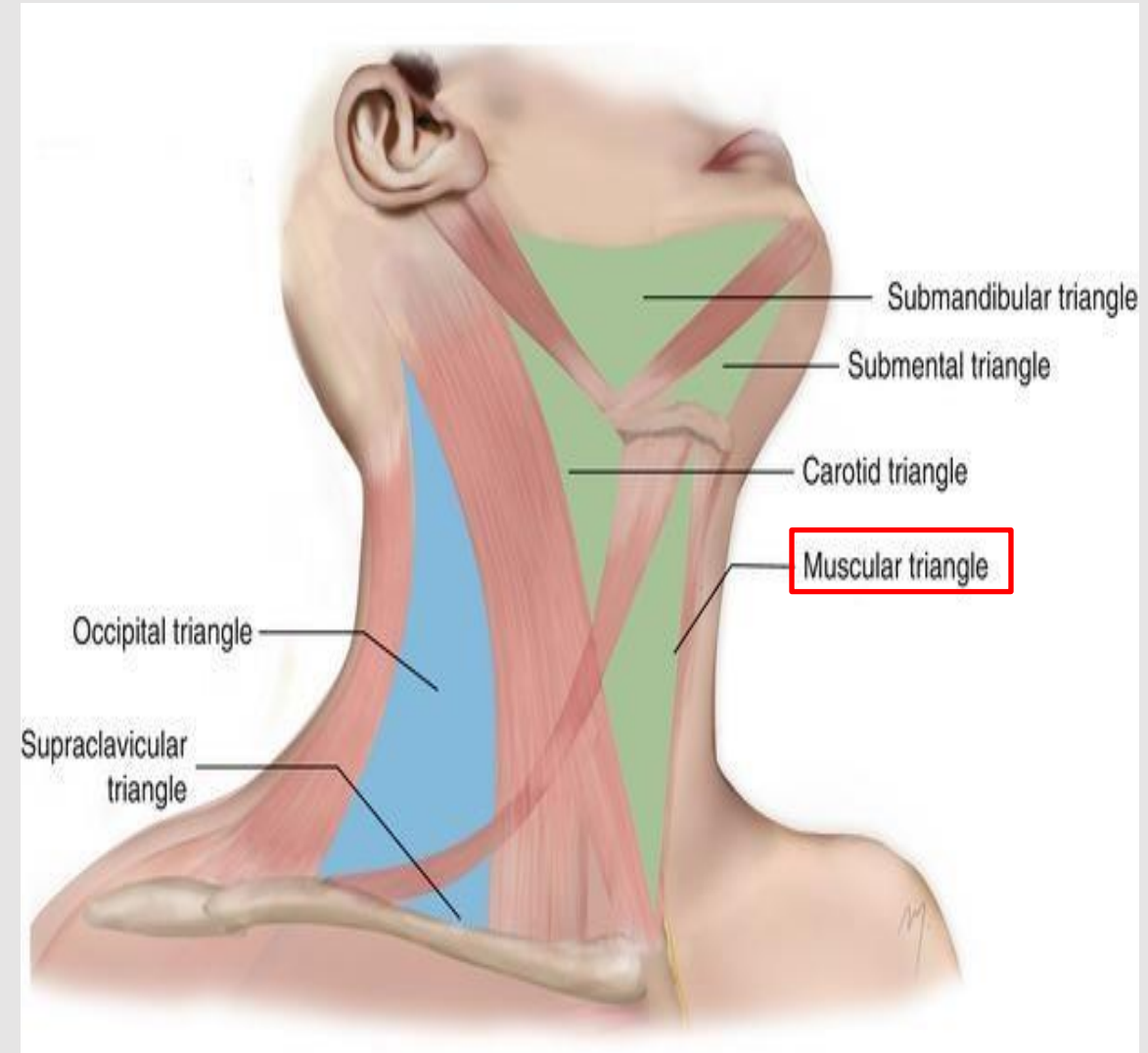
Muscular triangle

Boundaries:

Infront → midline of neck (from hyoid bone to the sternum).

Behind and above → superior belly of omohyoid.

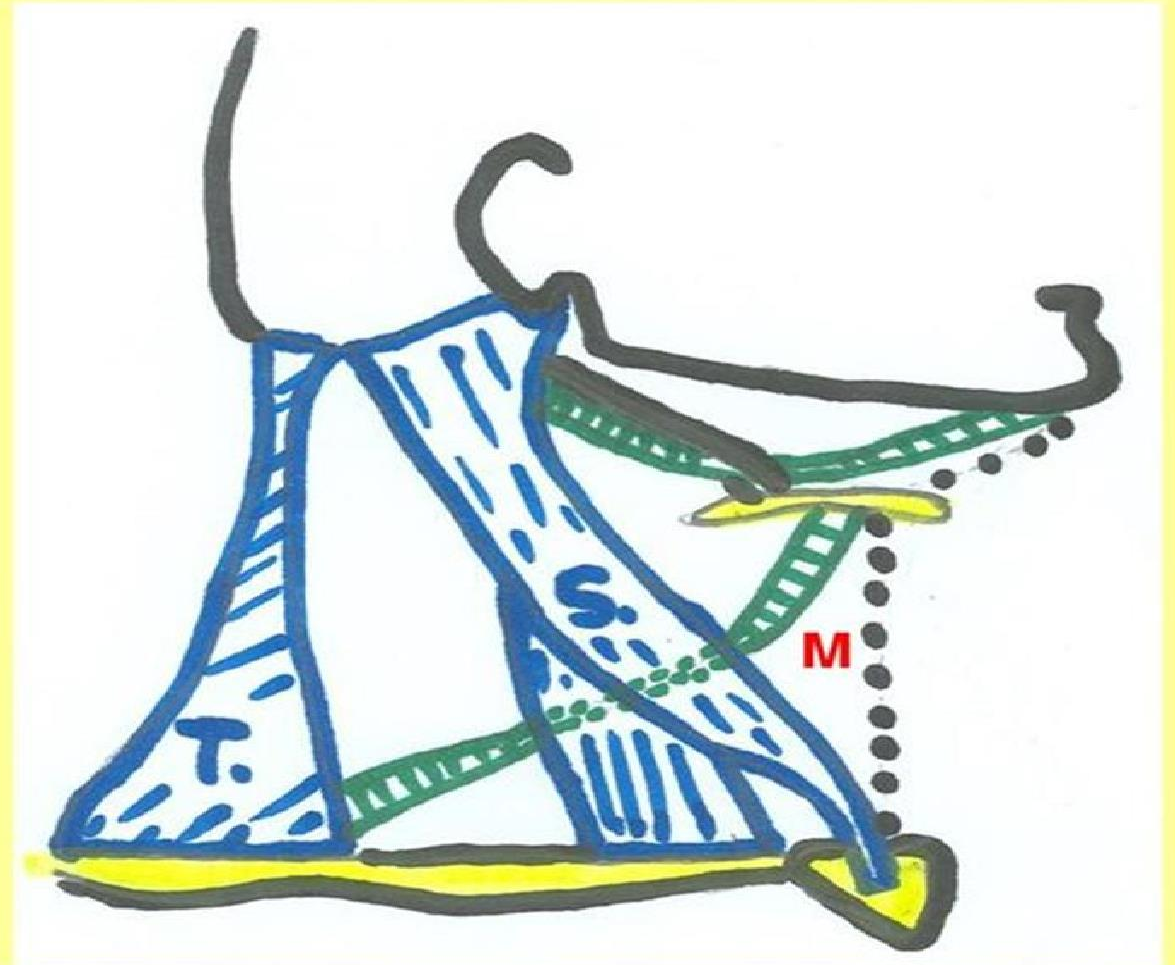
Behind & below → sternomastoid muscle.



MUSCULAR TRIANGLE

BOUNDARIES:

- **Anteriorly:** midline of neck
- **Superiorly:** superior belly of omohyoid
- **Inferiorly:** sternomastoid



Contents

Muscles →

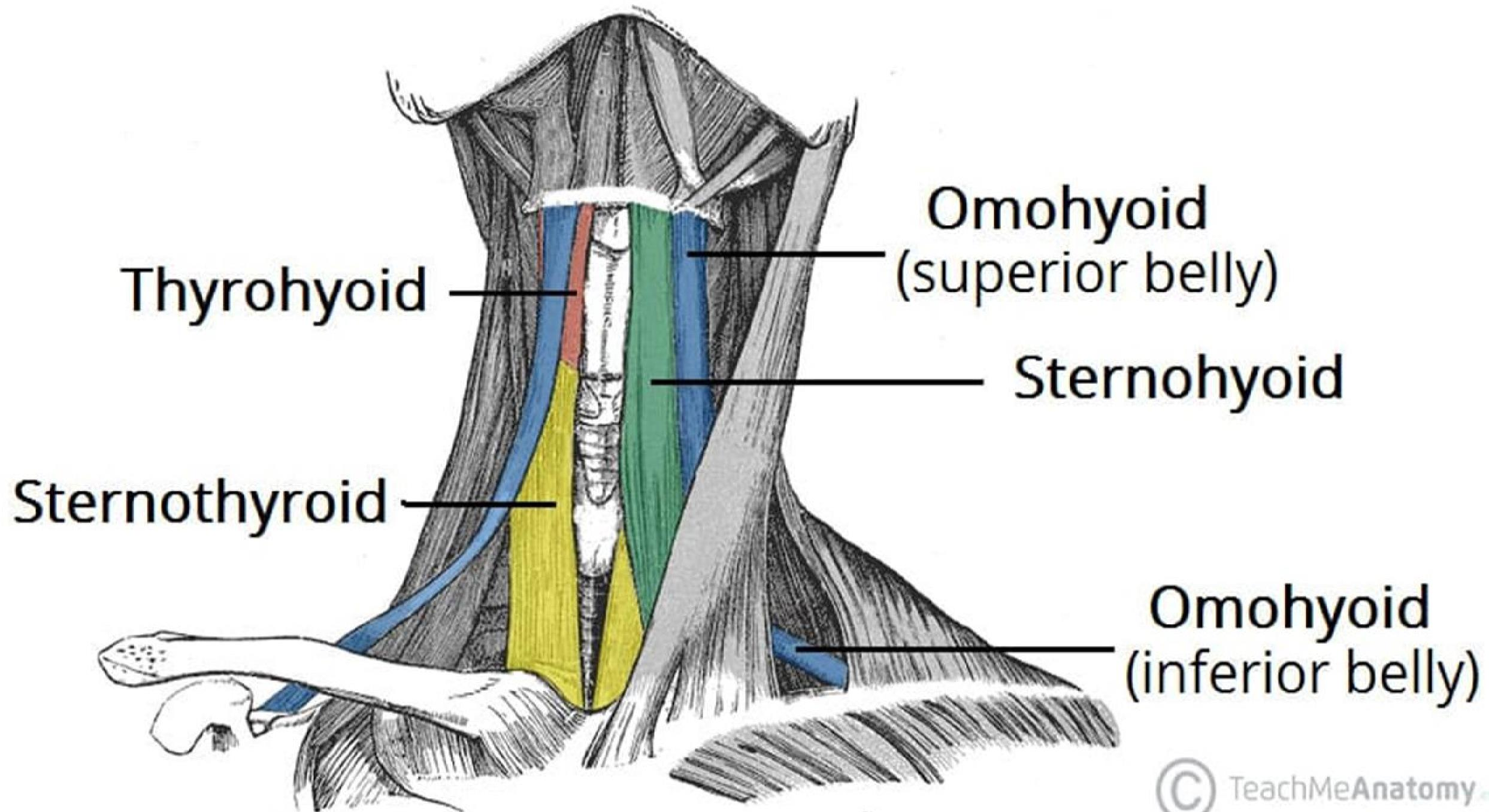
Infrahyoid muscles.

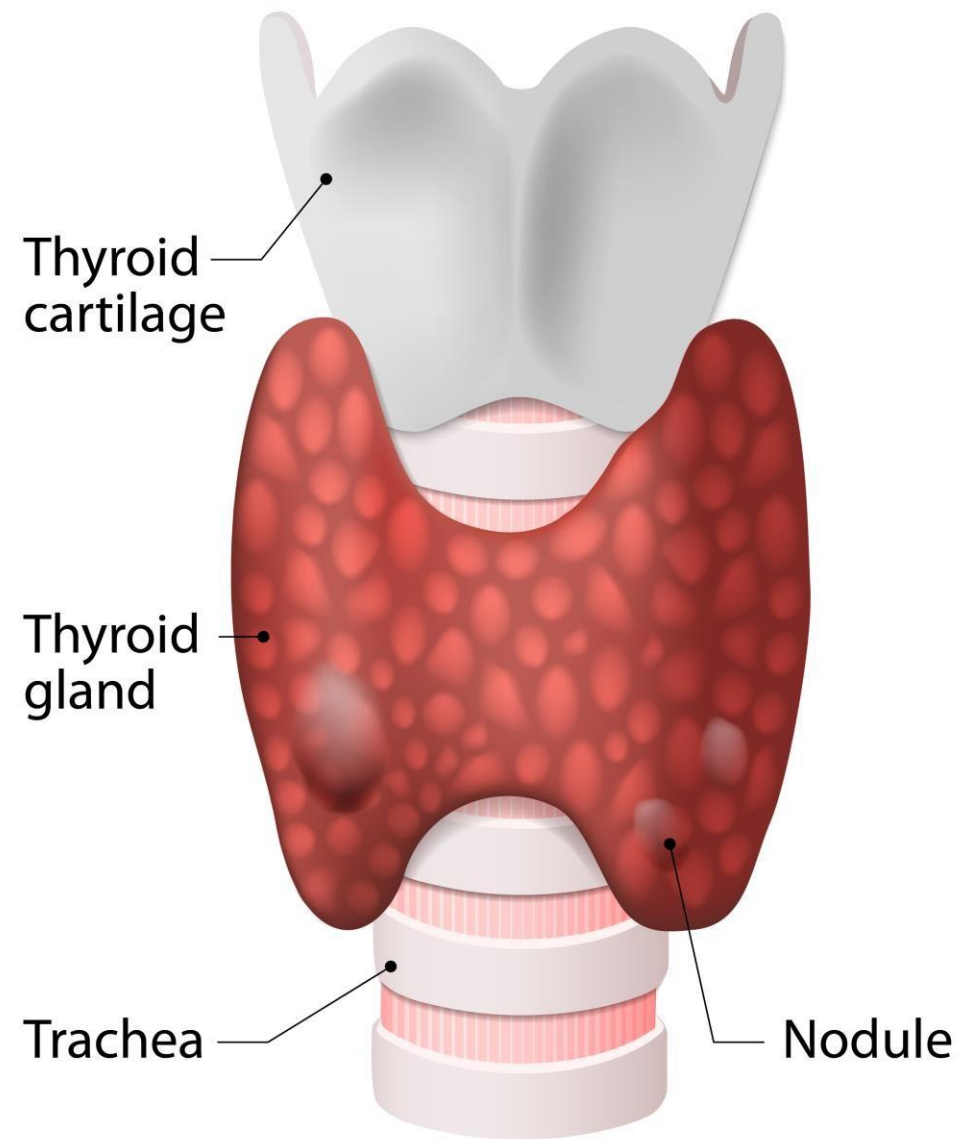
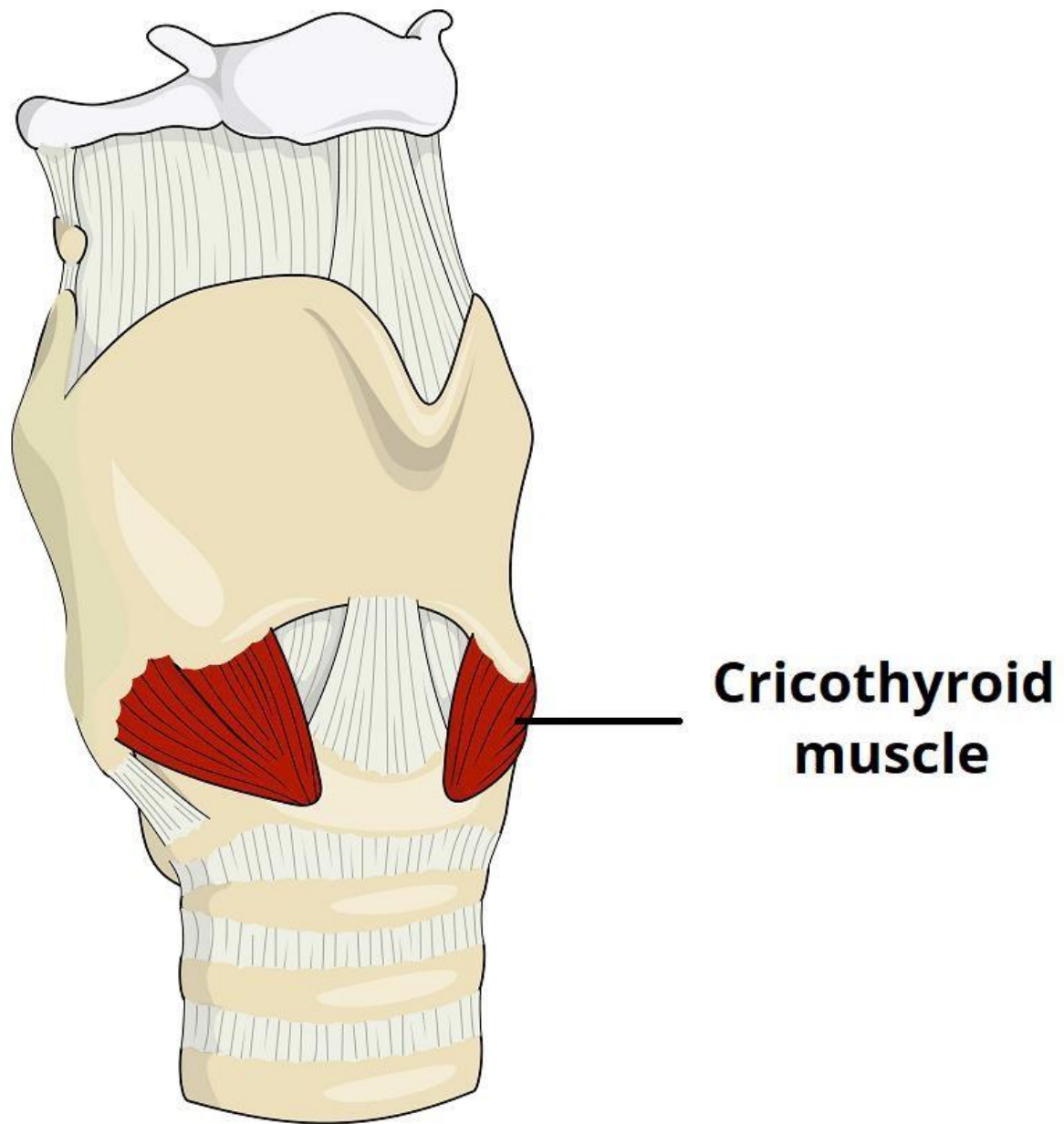


- Sternohyoid muscle.
- sternothyroid muscle.
- Thyrohyoid muscle.
- Omohyoid muscle.

Cricothyroid muscle (tensor of vocal cords aiding with phonation)

Gland → thyroid gland.





Good bye & good luck

Wessam Hamed

