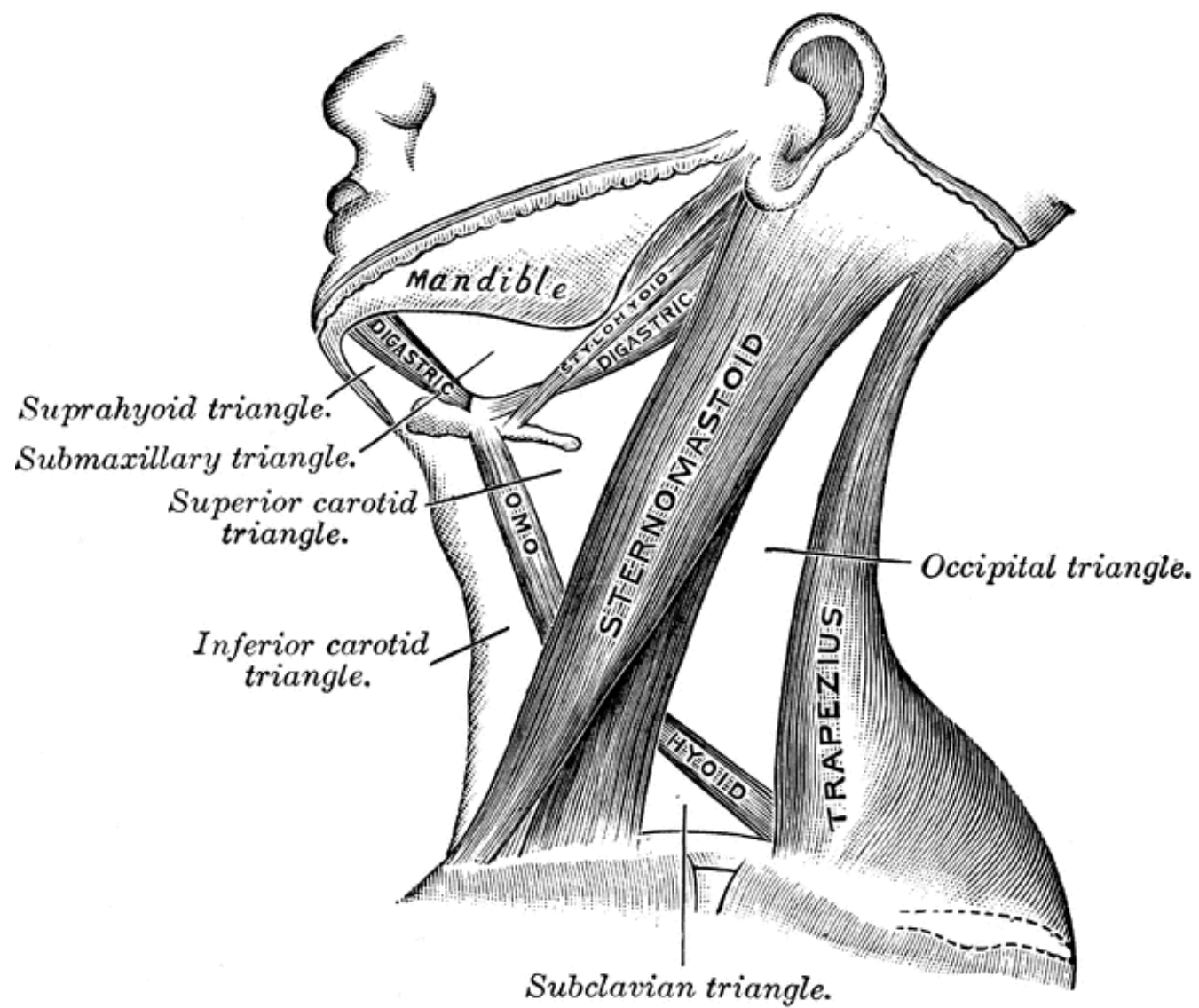


Neck

Dr. Vasitha

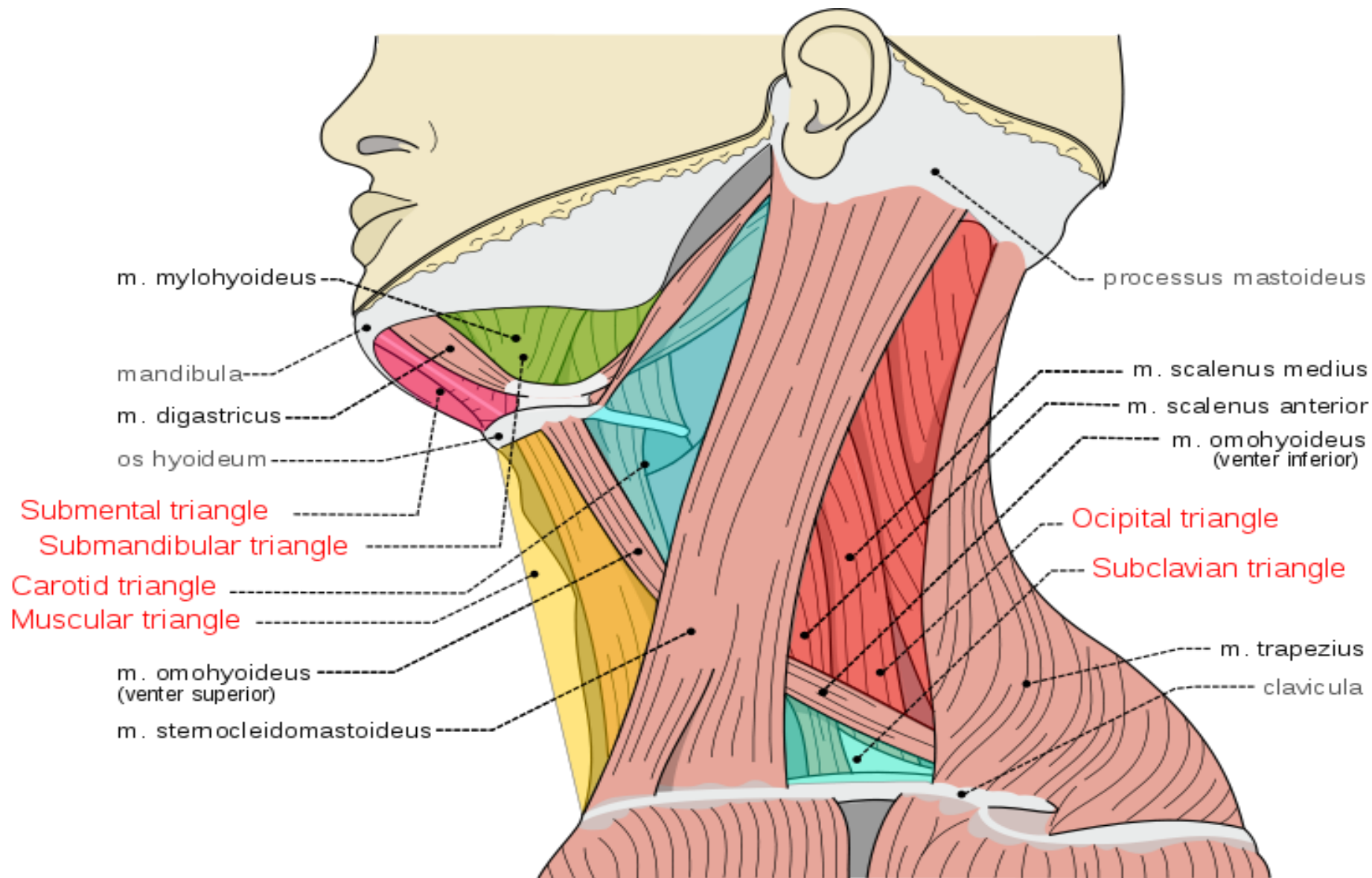
Neck-Anatomy

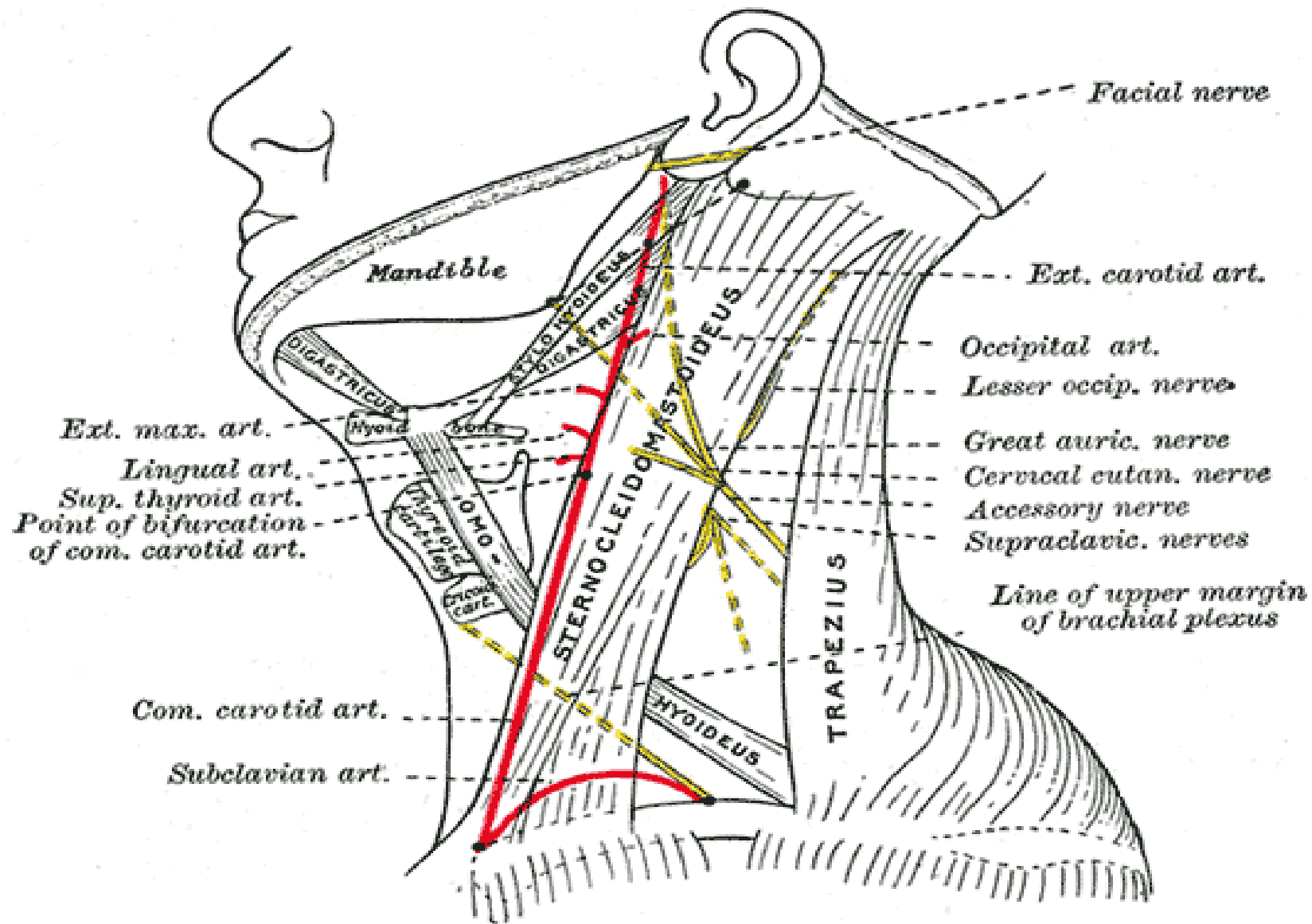
- The side : above, by the lower border of the body of the mandible, and an imaginary line extending from the angle of the mandible to the mastoid process; below, by the upper border of the clavicle; in front, by the middle line of the neck; behind, by the anterior margin of the trapezius.
- This space is subdivided into two large triangles by sternocleidomastoid, which passes obliquely across the neck, from the sternum and clavicle below, to the mastoid process and occipital bone above.
- The triangular space in front of this muscle is called the anterior triangle of the neck; and that behind it, the posterior triangle of the neck



Anterior triangle

Posterior triangle





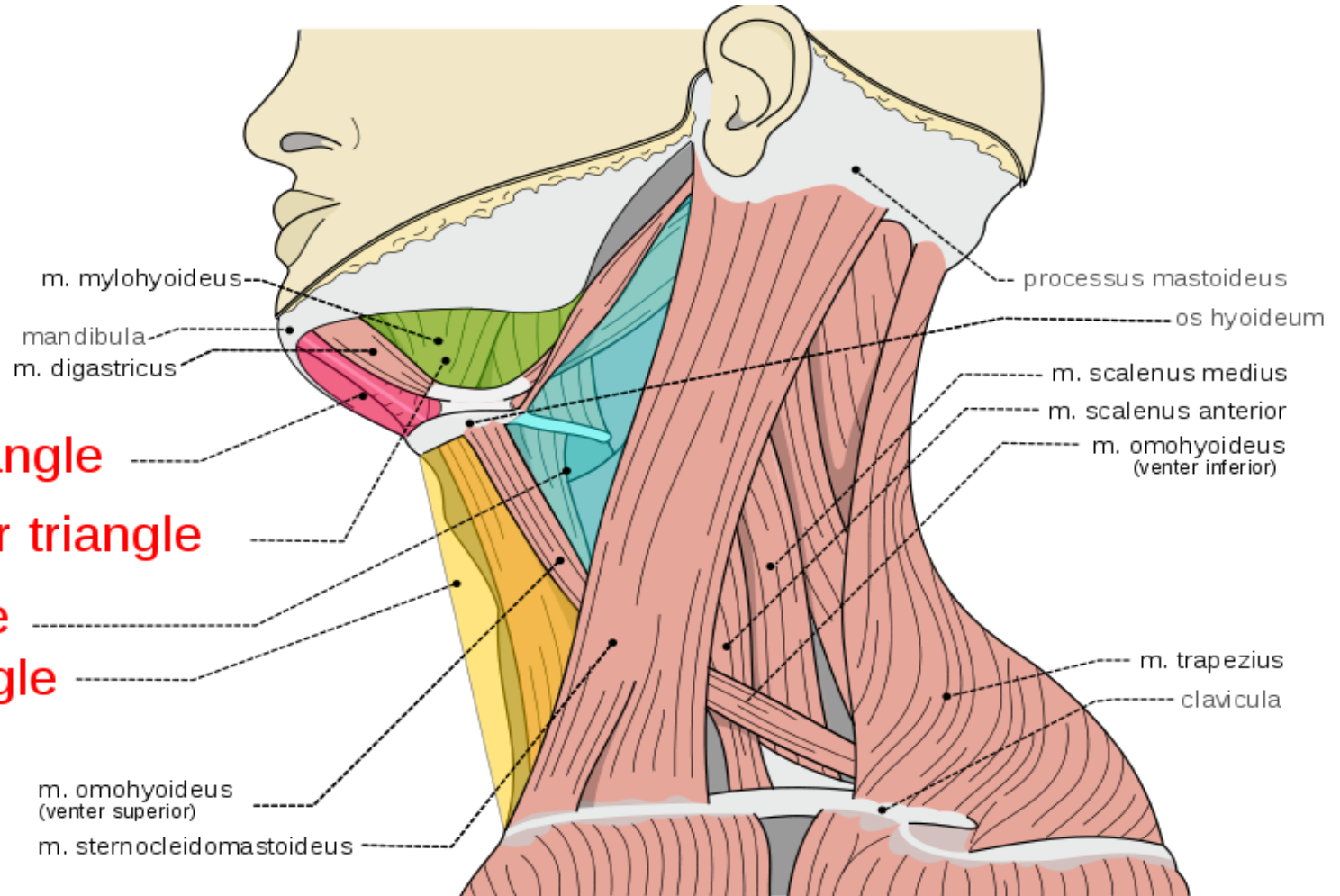
Anterior triangle

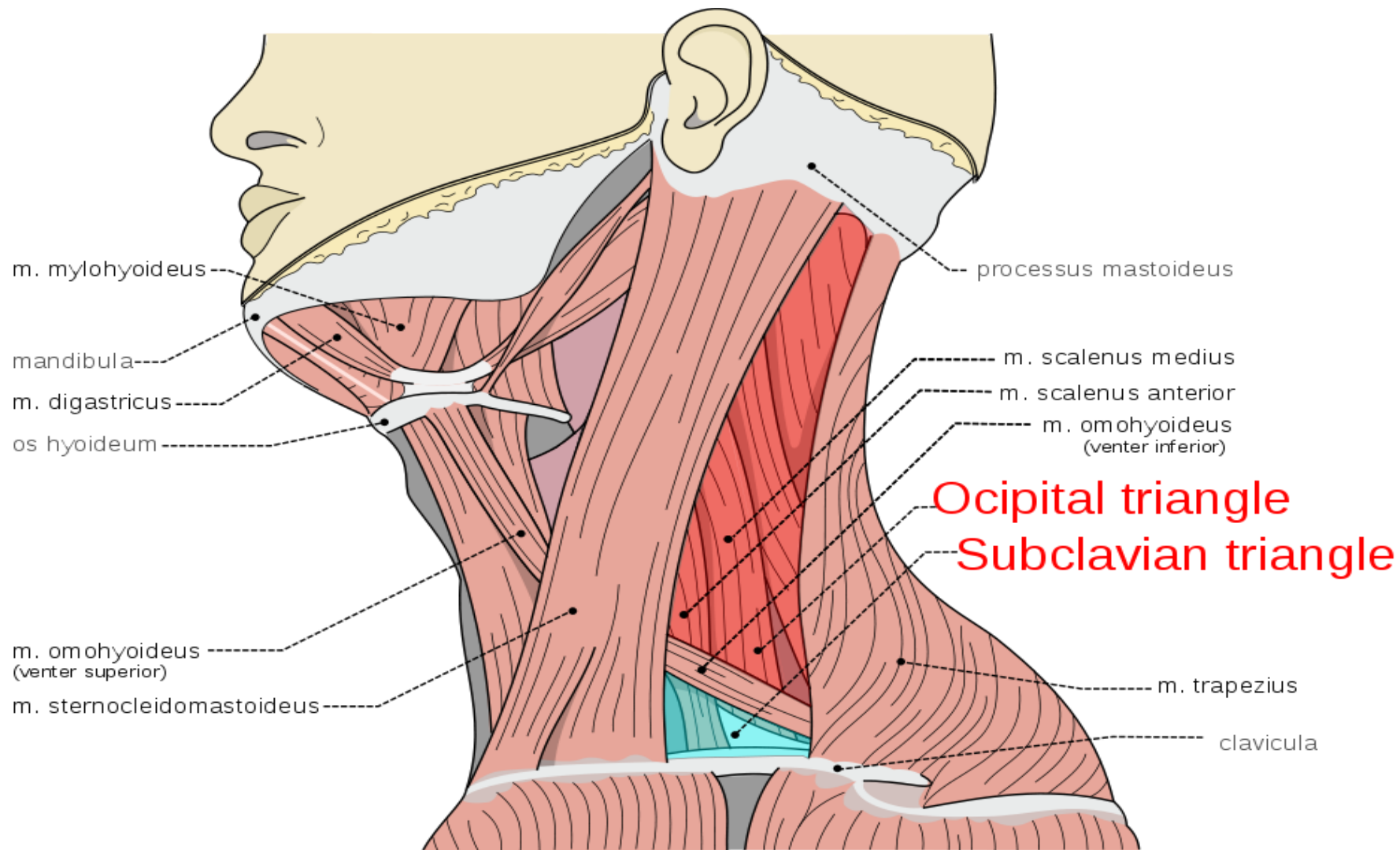
Submental triangle

Submandibular triangle

Carotid triangle

Muscular triangle





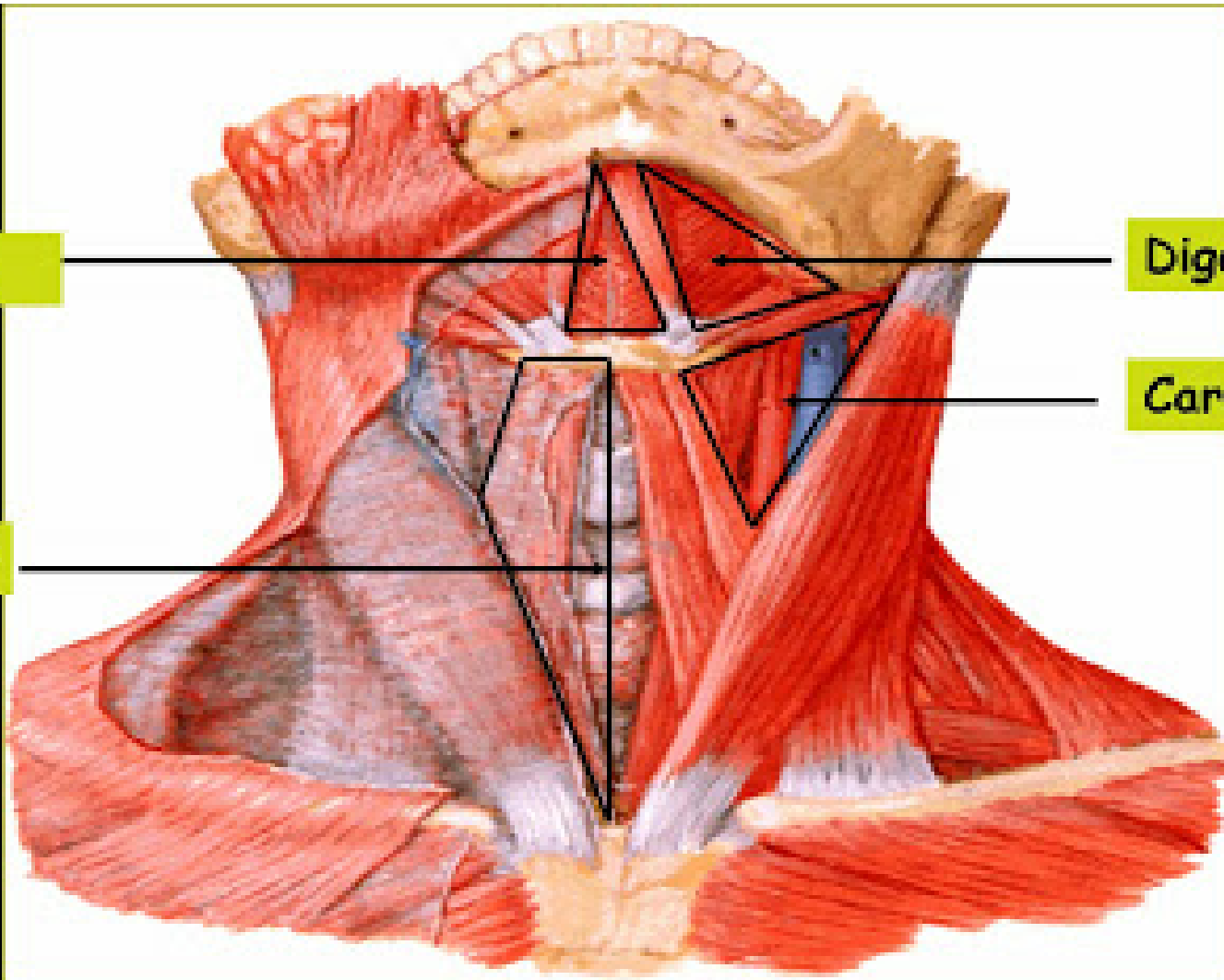
Posterior triangle

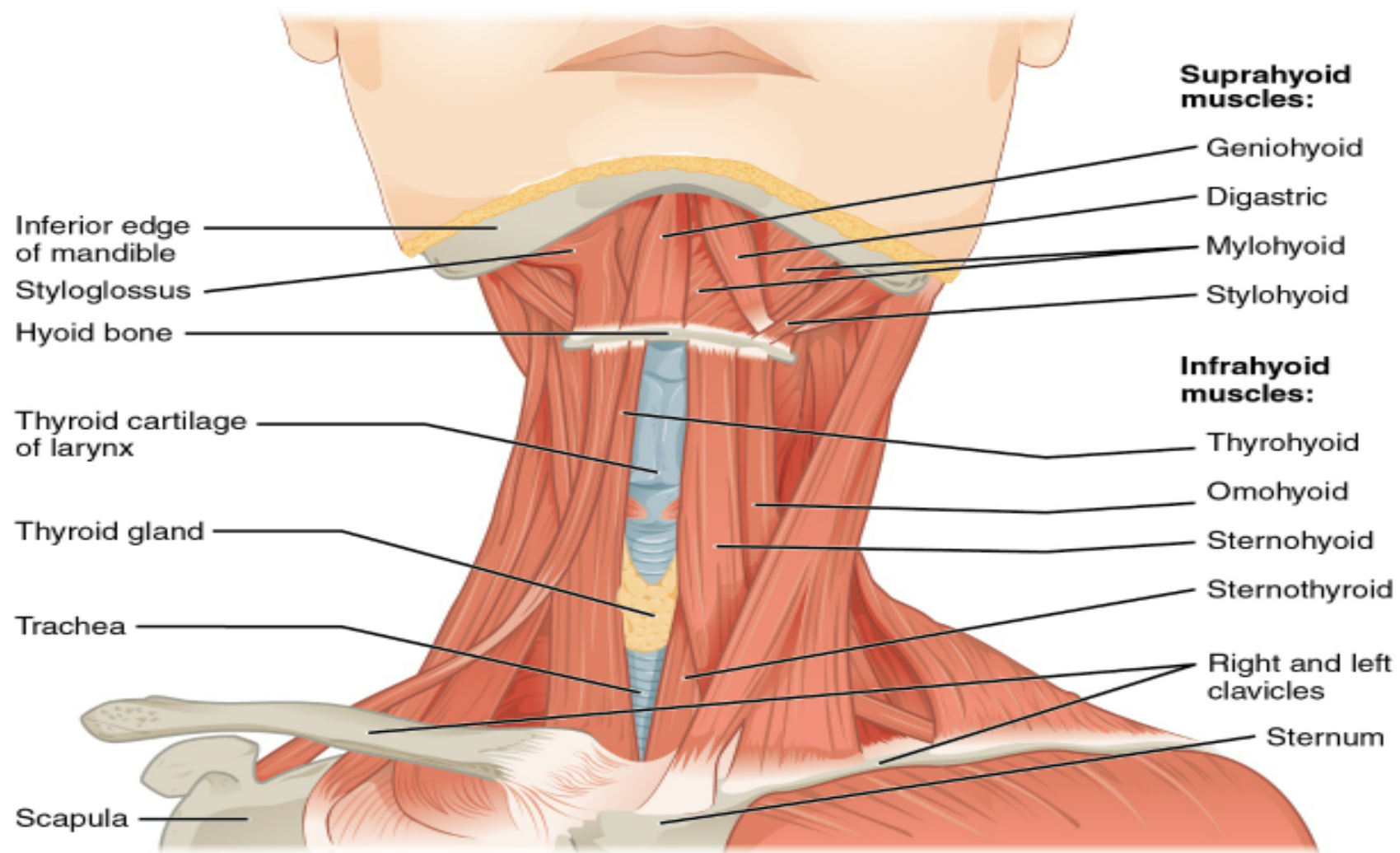
Submental

Muscular

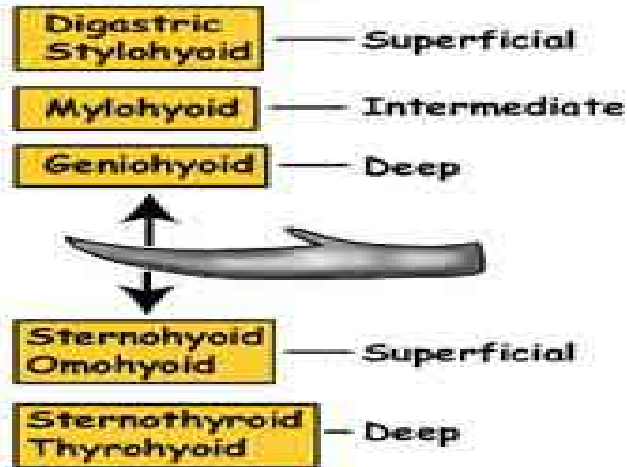
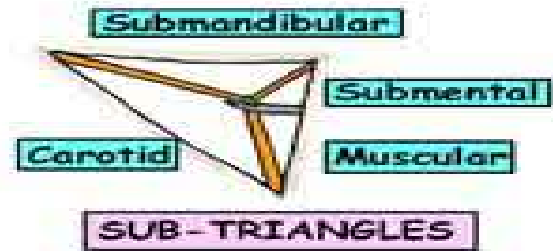
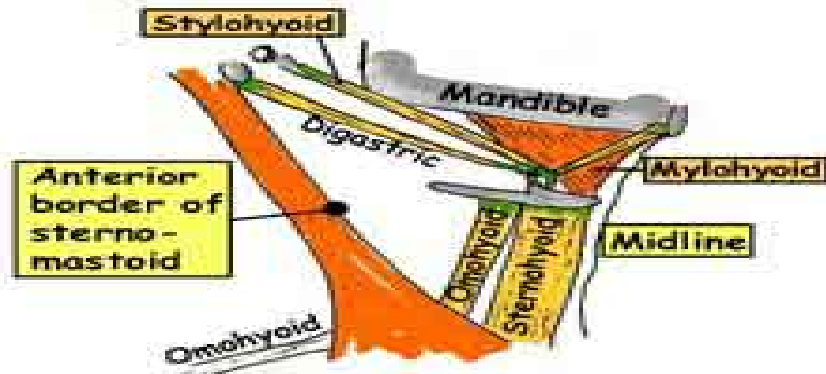
Digastric

Carotid



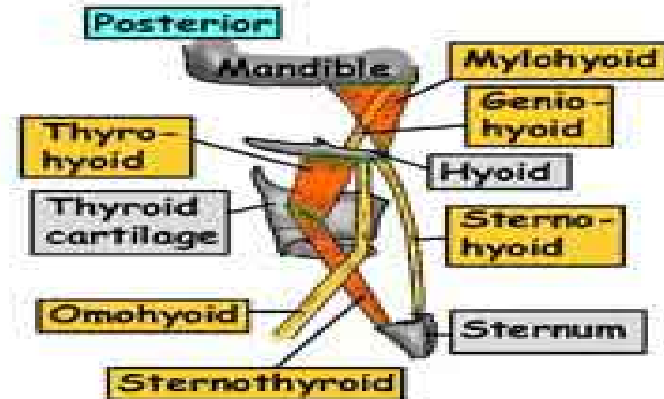


ANTERIOR TRIANGLE OF NECK SUB-TRIANGLES SUPRAHYOID AND STRAP MUSCLES



MUSCLES

Lie between pretracheal & investing fasciae.
Supplied by anterior rami of C1-3, ansa cervicalis,
facial nerve & nerve to mylohyoid (Vc)



ANTERIOR TRIANGLE OF NECK DIAGRAM OF CONTENTS

Internal jugular, facial vein,
retromandibular & external
jugular veins

Carotid
sheath &
branches
of external
carotid

Ansa
cervicalis

Oesophagus

Nodes

Submandibular
gland

XII

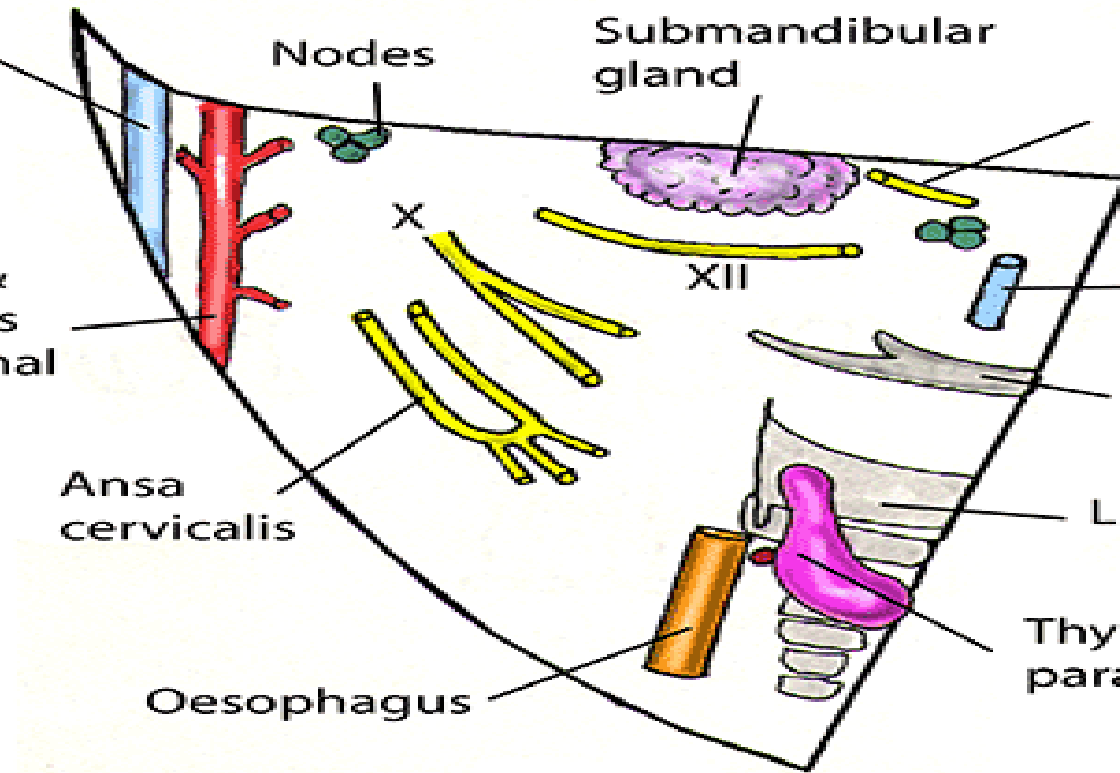
Nerve to
mylohyoid

Anterior
jugular vein

Hyoid bone

Larynx

Thyroid &
parathyroid



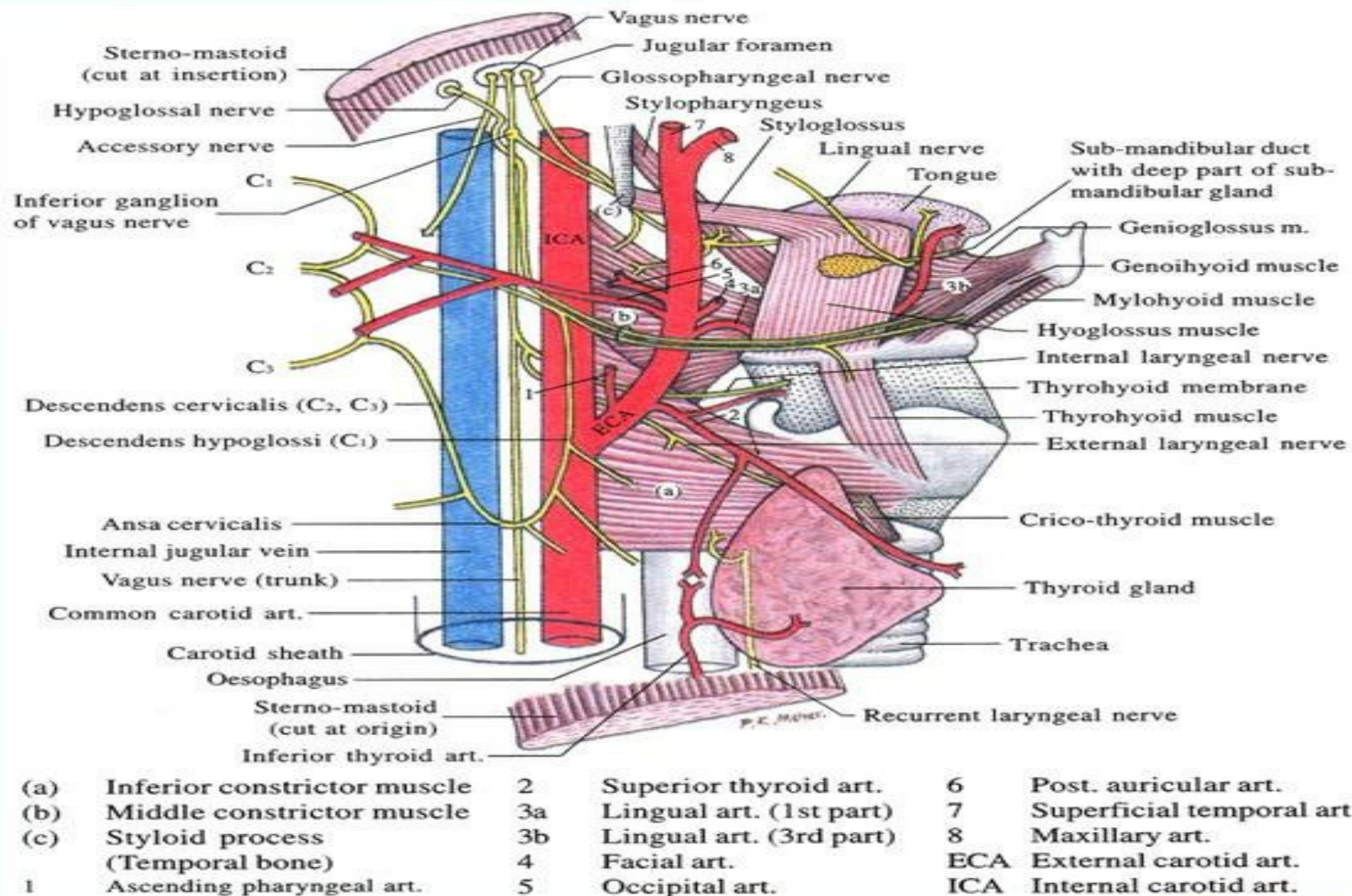


Fig. 4.3. Contents of the Anterior triangle of Neck (Schematic).

Carotid Triangle:

Borders:

Super: Post. belly of Digastric

Med: Sup. Belly of Omohyoid
(2)

Lat: Sternocleidomastoid (1)

Skin innervat.: cervical plexus

Content:

External jugular vein and
Superficial cervical fascia

Internal jugular vein (9) and
Common facial vein (6)

Common carotid A. (10)

Carotid Sinus (11)

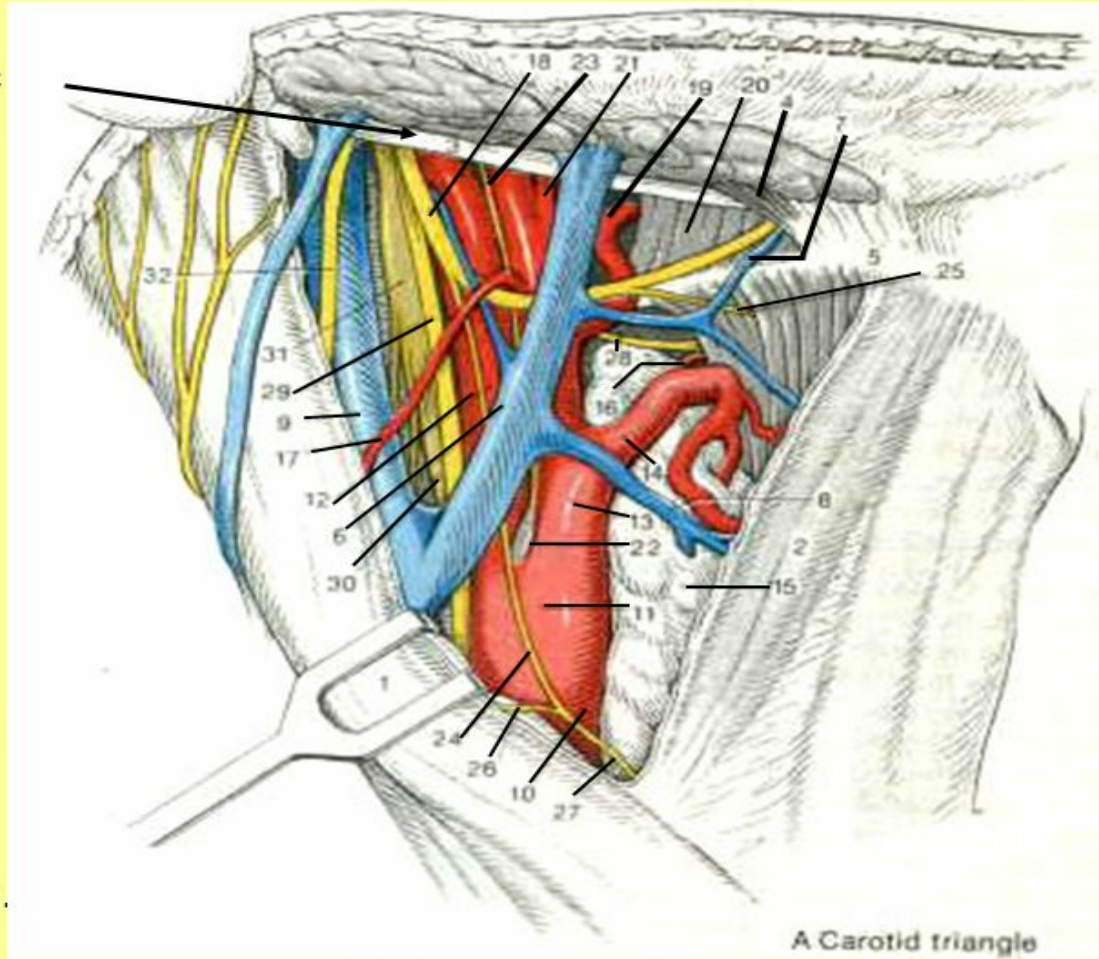
12- Internal carotid A.

13- External carotid A.

29- Vagus nerve (behind and in
between vessels)

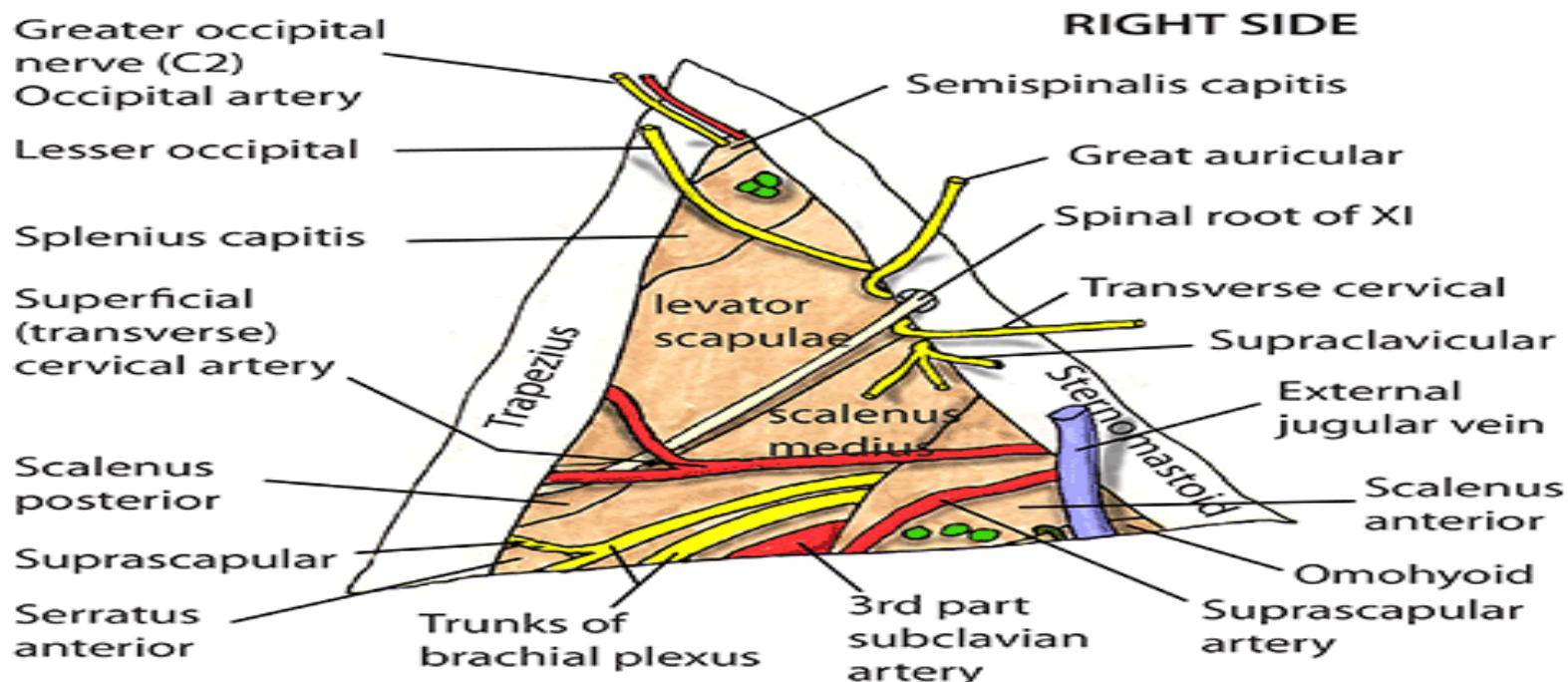
24- descending branch of XII
(upper root of cervical ansa)
runs above the carotid sheath.

18- Hypoglossal N.



POSTERIOR TRIANGLE OF NECK

- **Boundaries:** Posterior border of sternocleidomastoid, anterior border of trapezius, mid 1/3 clavicle
- **Shape:** Spiral
- **Roof:** Investing fascia, platysma, external jugular vein
- **Floor:** Prevertebral fascia covering muscles, subclavian artery, trunks of brachial plexus & cervical plexus
- **Contents:**
 - **Arteries:** Occipital, superficial cervical, suprascapular
 - **Veins:** Transverse cervical, suprascapular, external jugular
 - **Nerves:** Branches of cervical plexus, spinal root of accessory
 - **Muscle:** Omohyoid with its sling
 - **Lymph nodes:** Occipital (rubella/scalp infections)
Supraclavicular (part of the deep chain)



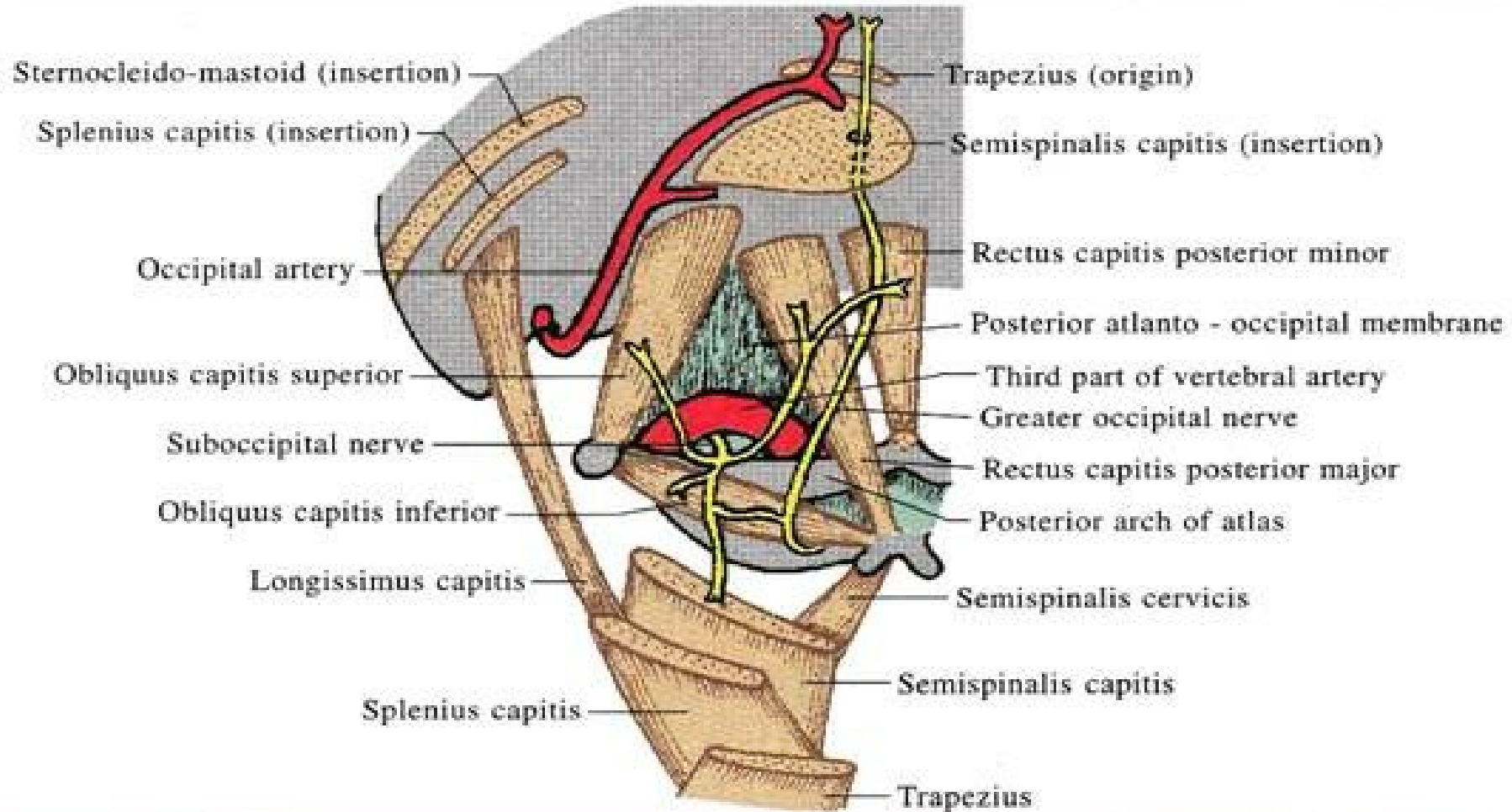


Fig. 3.11. Sub-occipital triangle (Left).

- 1 Superior constrictor muscle
- 2 Middle constrictor muscle
- 3 Inferior constrictor muscle
- 4 External carotid art.
- 5 Facial art.
- 6 Stylohyoid muscle
- 7a Digastric (Post. belly)
- 7b Digastric (Ant. belly)

- 8 Mylohyoid muscle
- 9 Hyoglossus muscle
- 10 Styloid process of temporal bone
- 11 Transverse cervical nerve
- 12 Supra-clavicular nerve

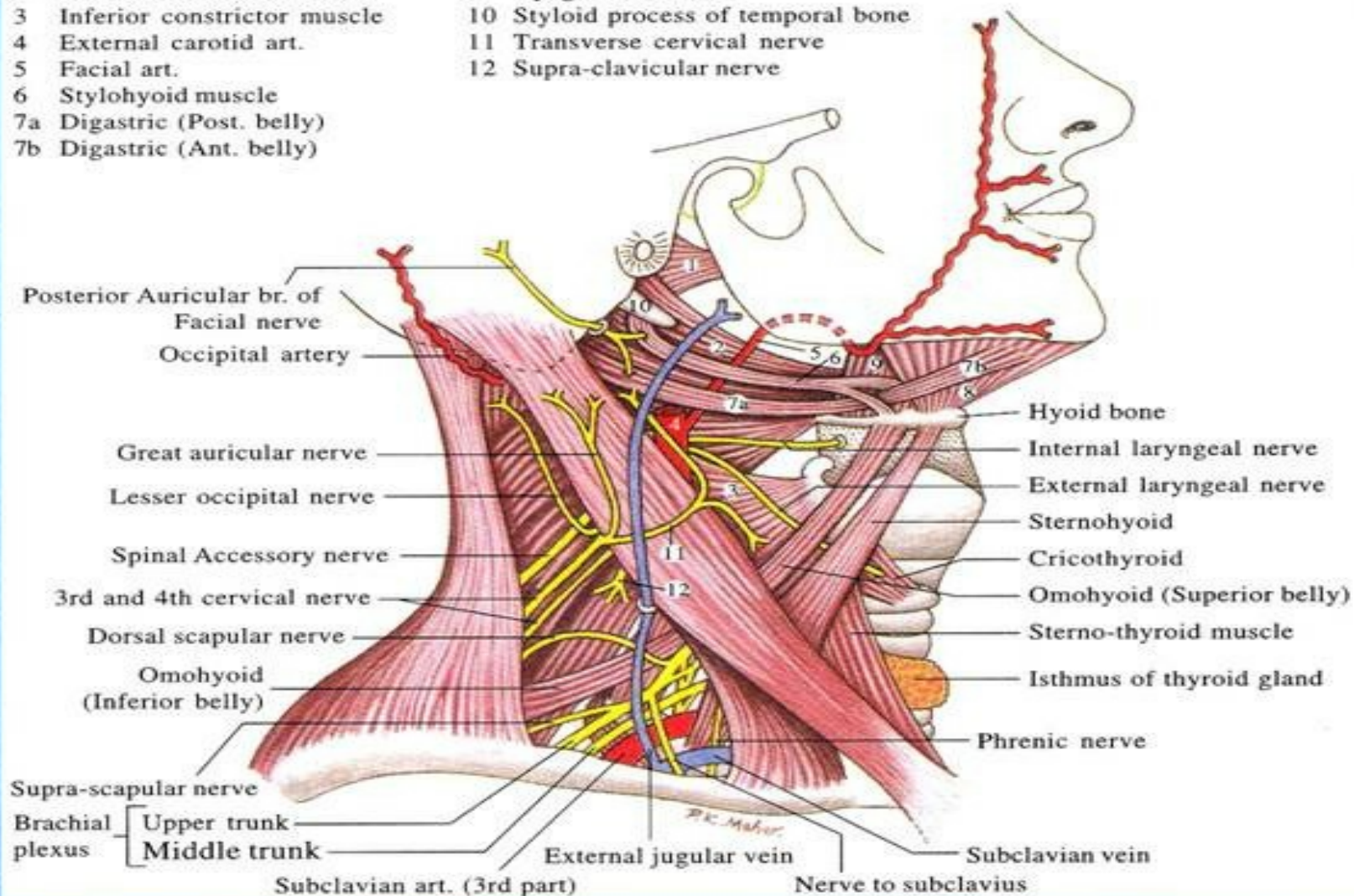


Fig. 3.5. Contents of the Posterior triangle.

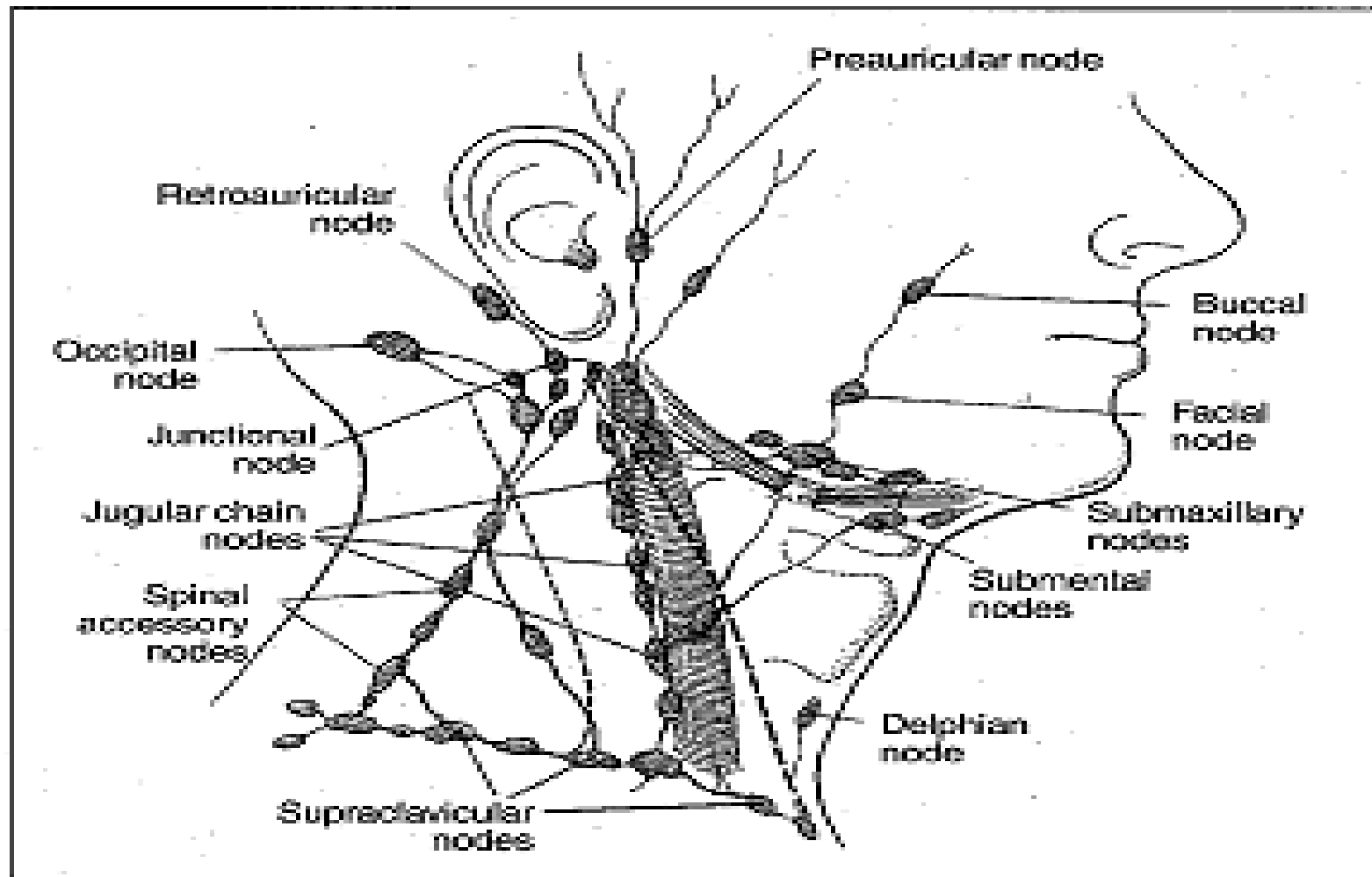


Figure 1: Lymph node groups are most commonly referred to by the names in this illustration.