

# Poserior triangle

*presented by Reda Taha*

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# Anatomy of the Side of the neck

Boundaries:

**Above:**

- Lower border of mandible.
- Mastoid process.
- Superior nuchal line.

**Below:**

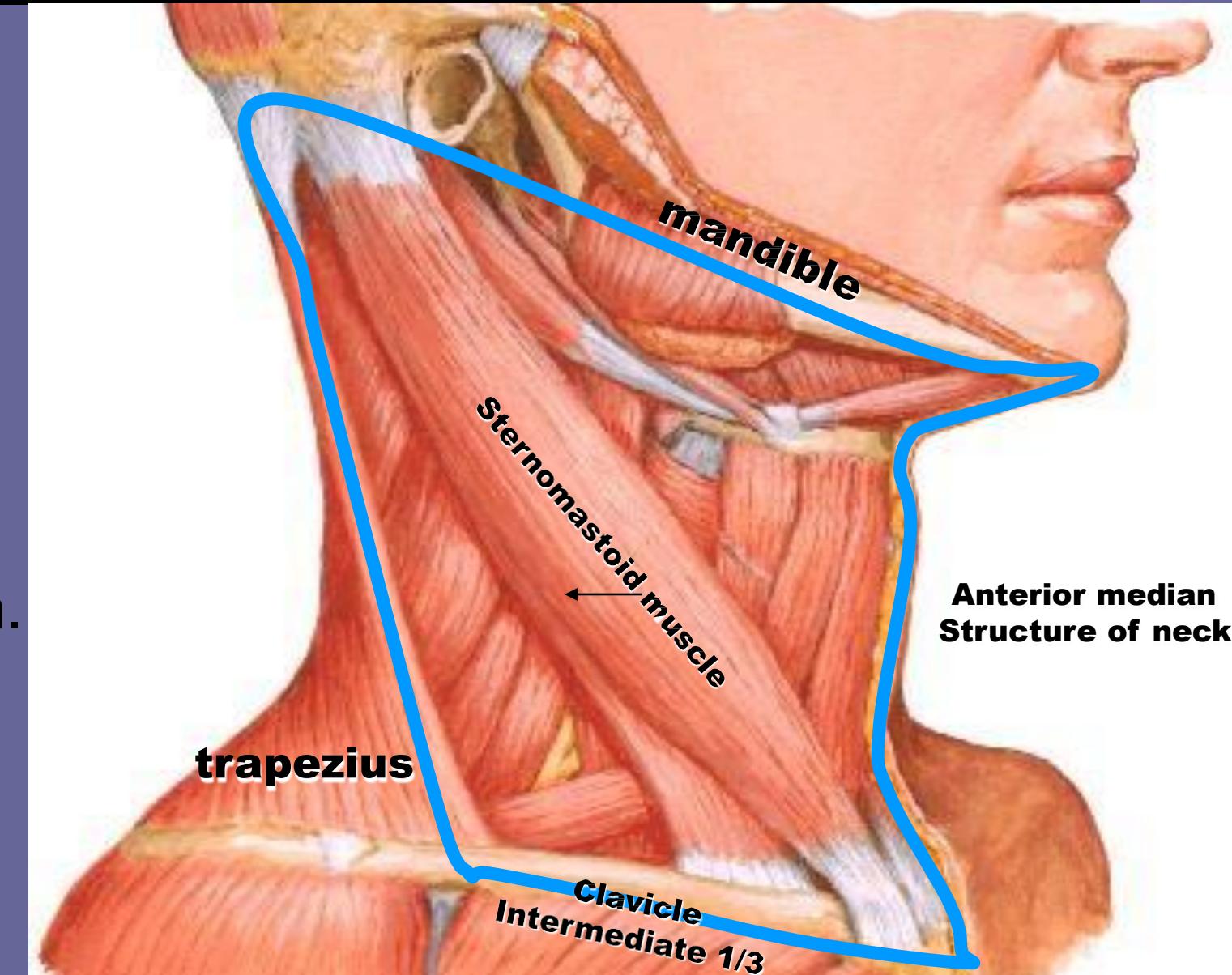
- The clavicle (middle 1/3).
- Upper border of the sternum.

**Anteriorly:**

- The median plane.

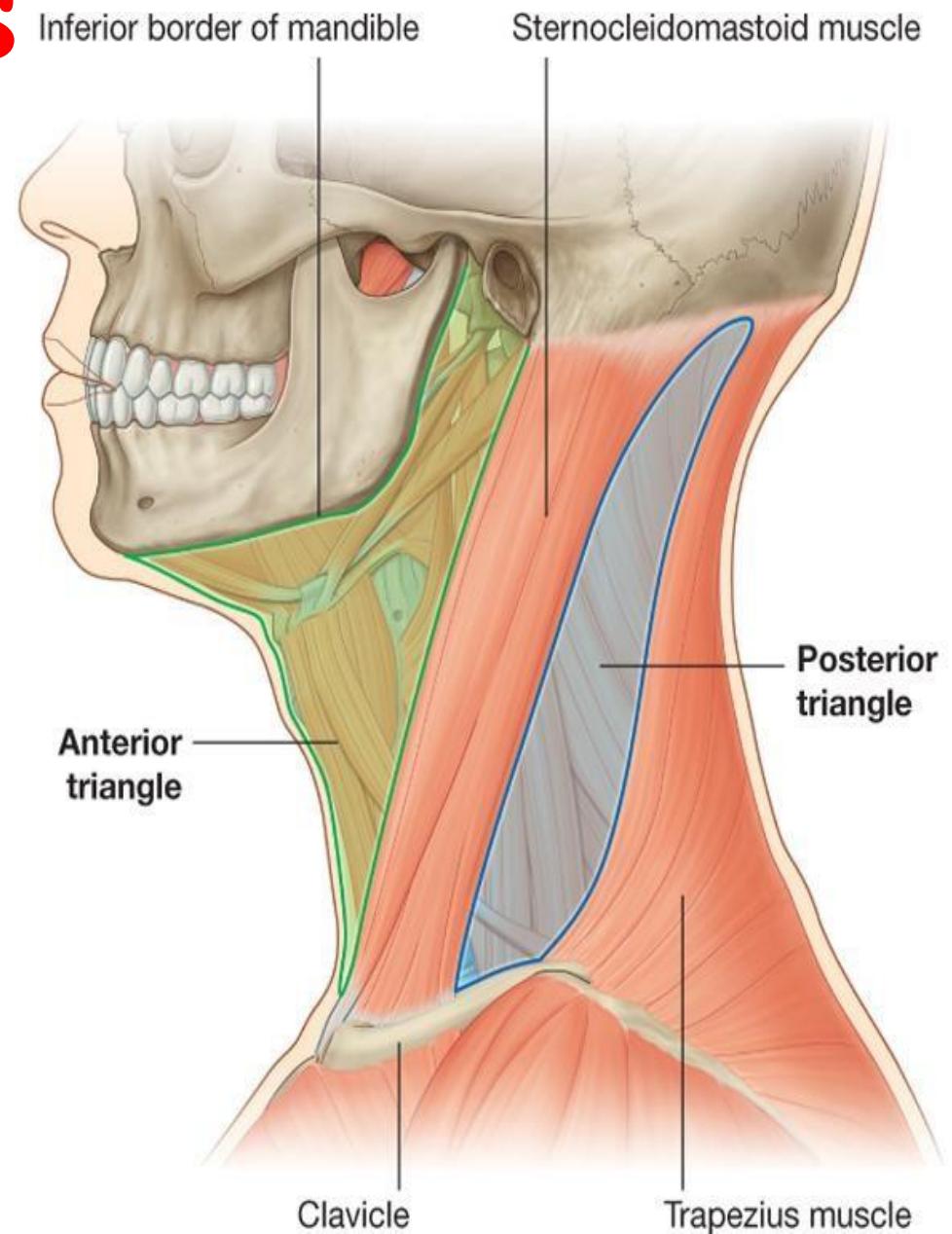
**Posteriorly:**

- Anterior border of trapezius.



# Divisions

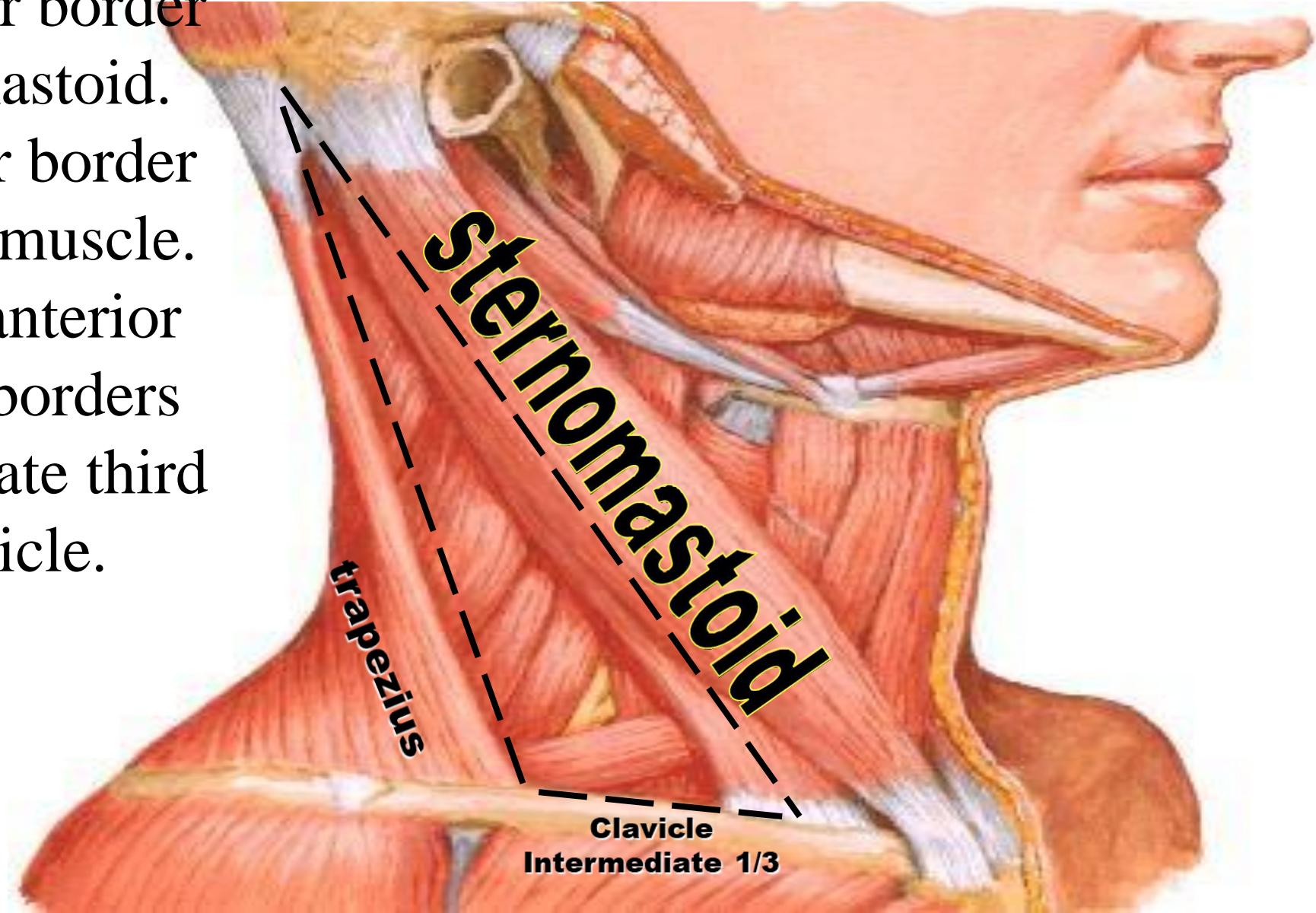
- The side of the neck is divided by the sternocleidomastoid muscle into two triangles:
  - **Anterior triangle:** the triangular space in front of sternocleidomastoid muscle
  - **Posterior triangle:** the triangular space behind sternocleidomastoid muscle



# Posterior triangle of the neck

## Boundaries:

- **Anteriorly:** posterior border of the sternocleidomastoid.
- **Posteriorly:** anterior border of the trapezius muscle.
- **Apex:** meeting of anterior and posterior borders
- **Base:** the intermediate third of the clavicle.



# ROOF

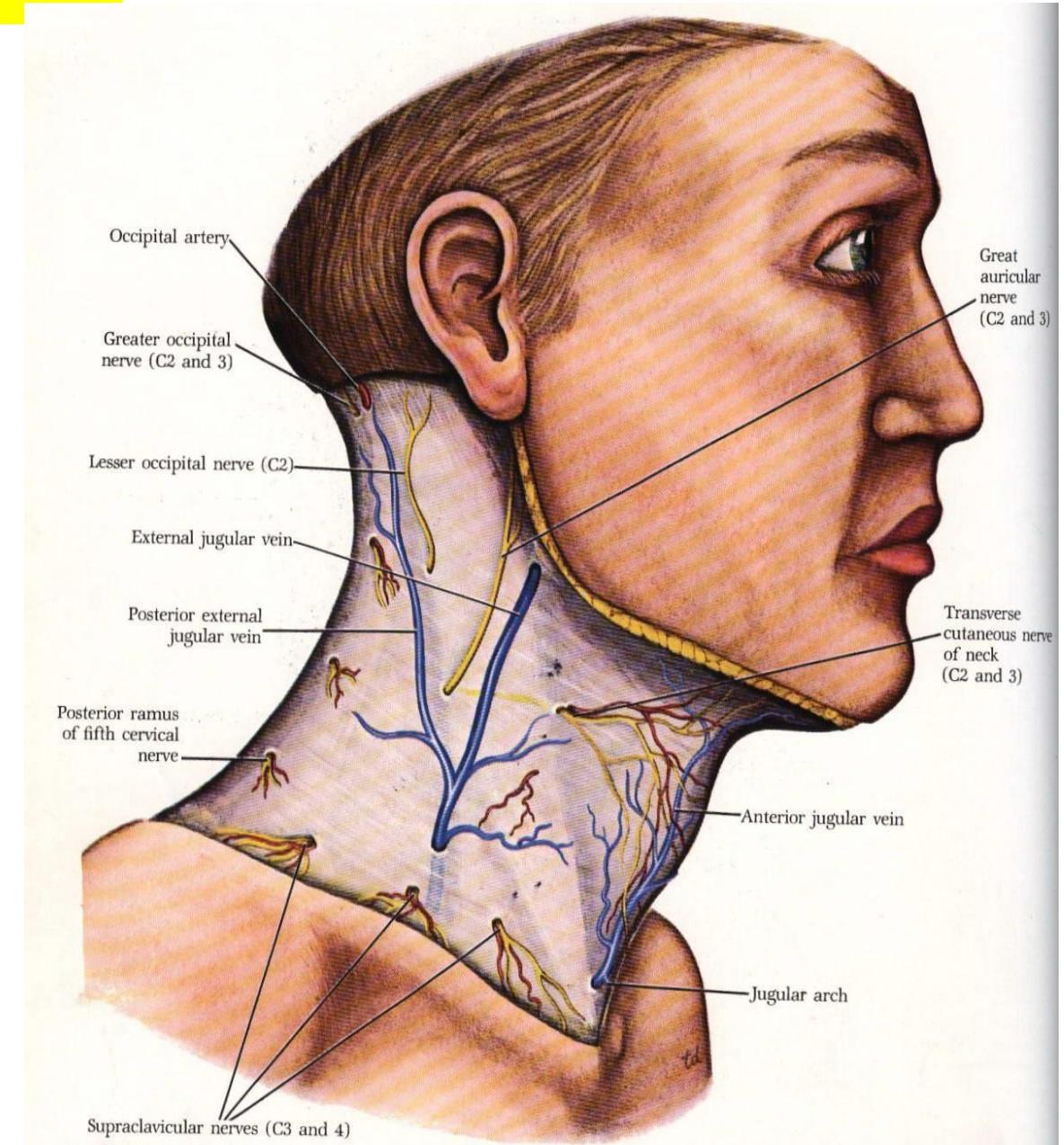
1]=Skin.

2]=Superficial fascia

with platysma and

cutaneous nerve .

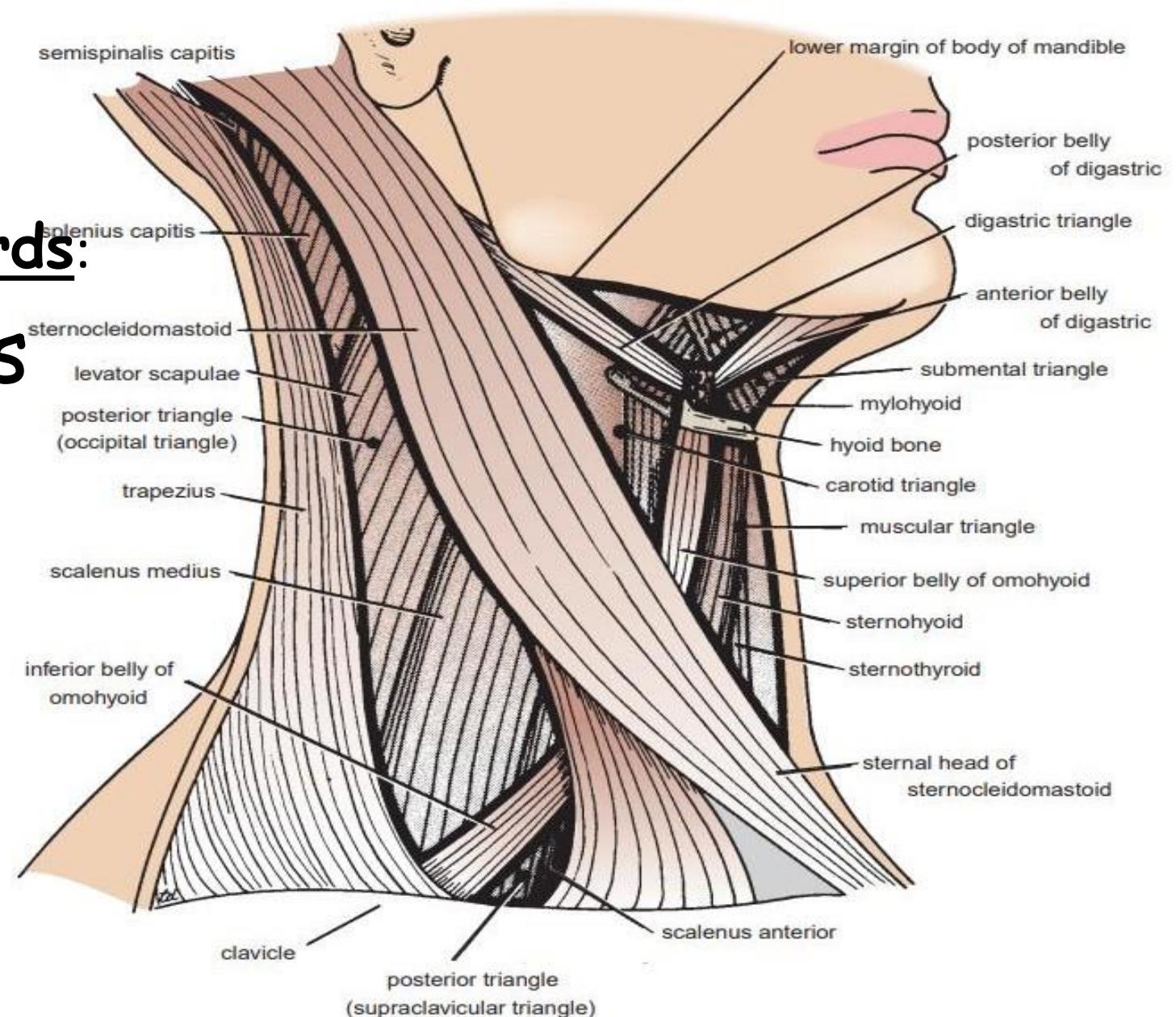
3]=Deep fascia.



# Floor

➤ formed by the following muscles from above downwards:

1. **semispinalis capitis**
2. **splenius capitis.**
3. **levator scapulae**
4. **scalenus medius**



# Division

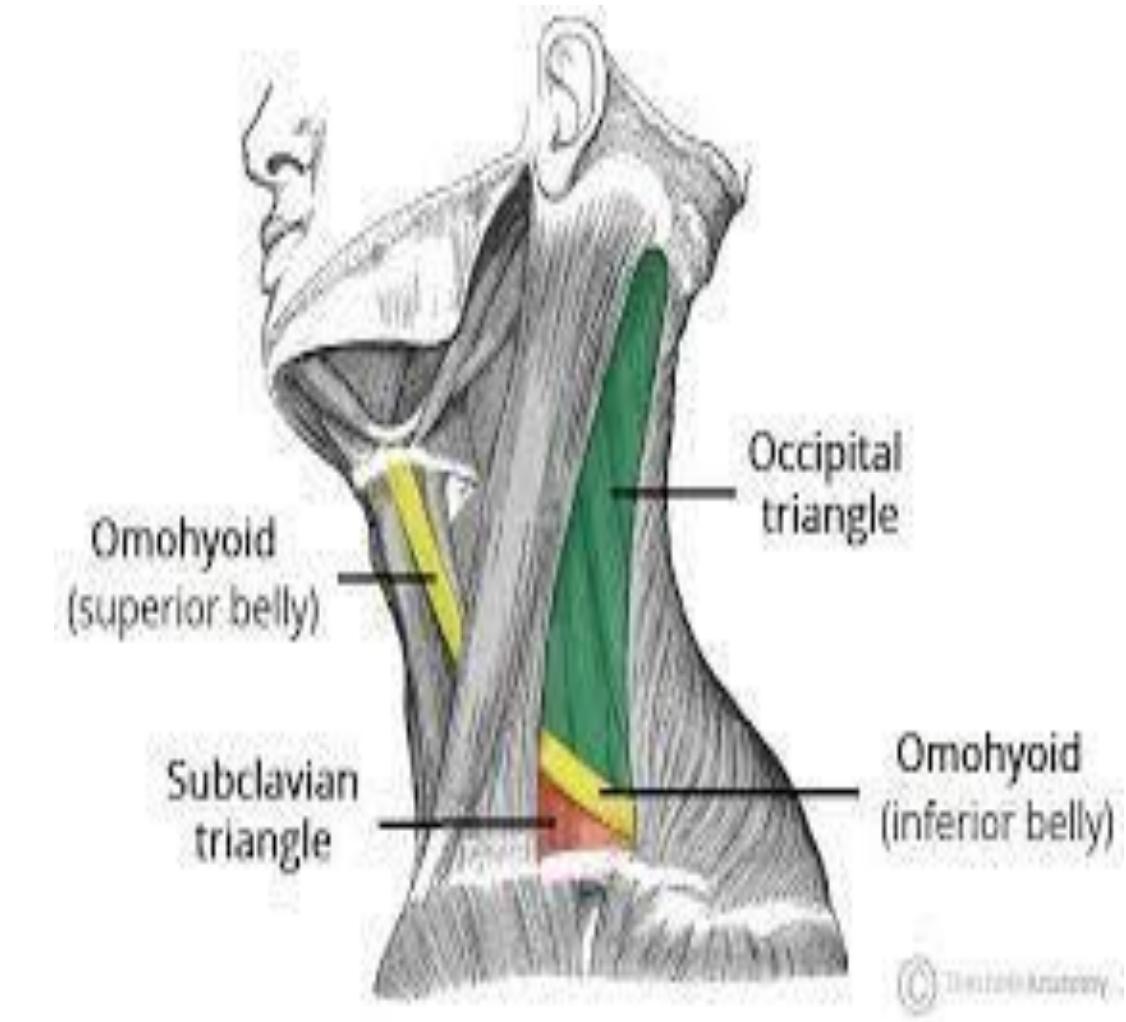
*Divided by inferior belly  
of omohyoid;*

**1** Occipital triangle :

larger upper part.

**2** Supra-clavicular triangle:

smaller lower part



# CONTENTS

1-VEINS

2-Arteries :-

3-Nerves

4-Muscle

5-Lymph nods:

## 1-VEINS:-

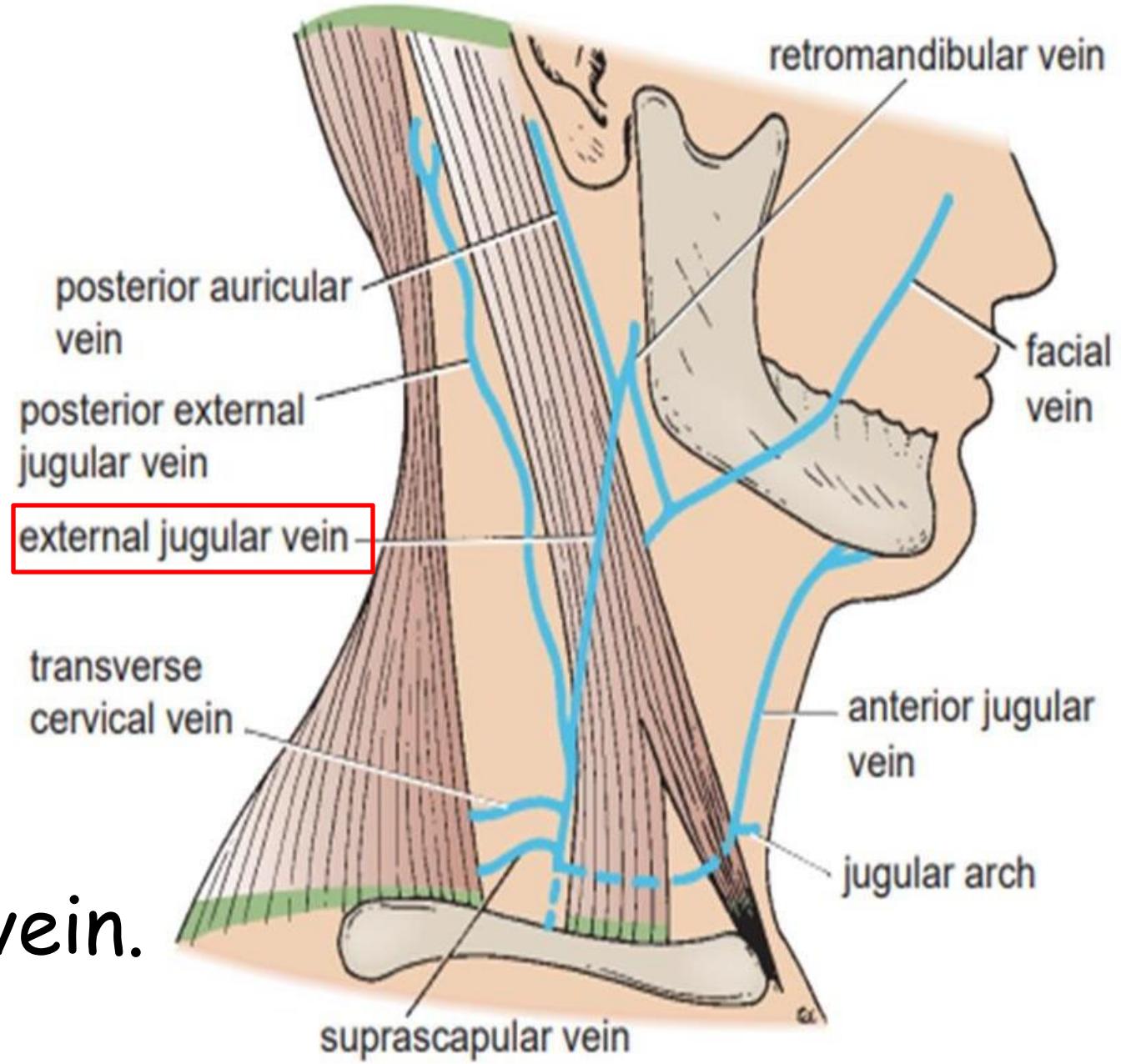
### 1 External jugular vein

From posterior division of retromandibular and posterior auricular

### 2 Subclavian vein.

### 3 Supra-scapular vein.

### 4 Transverse cervical vein.



## 2-Arteries :-

1 Subclavian artery.  
[third part]

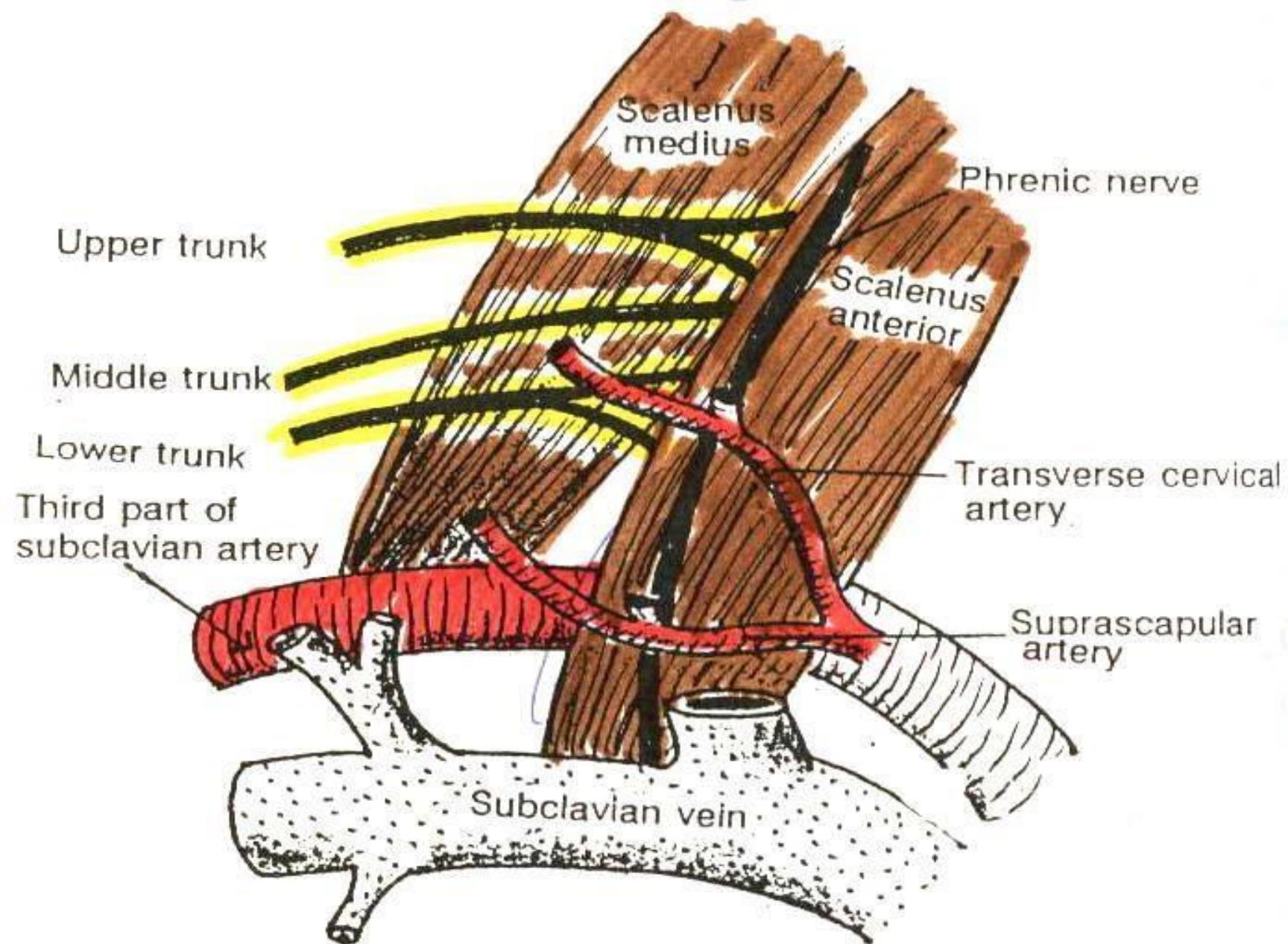
2 Supra-scapular artery.

1<sup>st</sup> part subclavian → thyrocervical trunk → supra-scapular Artery.

3 Transverse cervical artery.

4 Occipital artery.

From external carotid artery



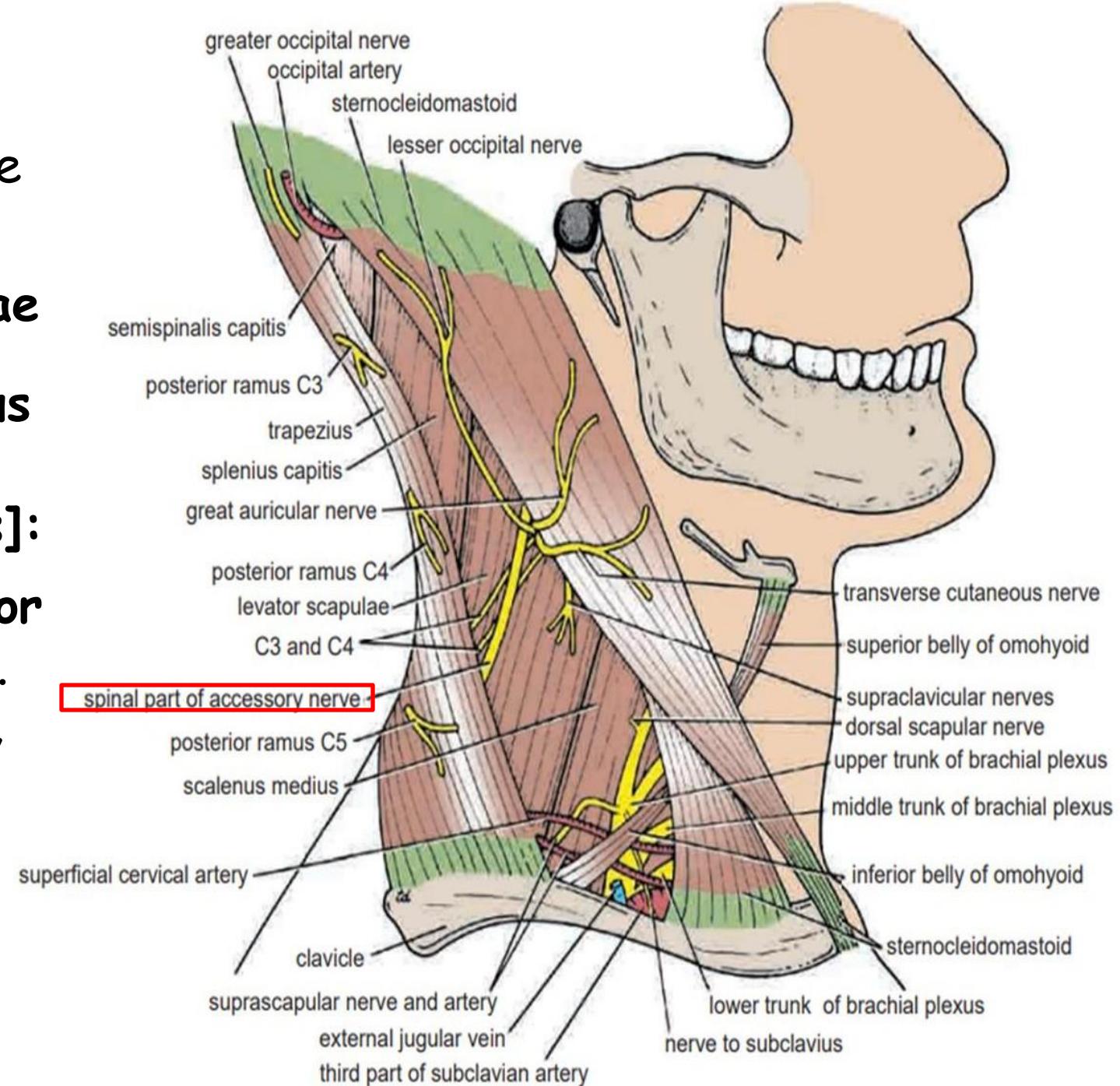
Main contents of the posterior triangle

## **3-Nerves:-**

**1-Accessory nerve 11<sup>th</sup> (spinal root):** appears at the middle of the **posterior border of the sternomastoid**. Then it runs downwards on the **levator scapulae** muscle and supply **sternocleidomastoid and trapezius** Ms

**2-Brachial plexus [roots & trunks]:**

- **Site:** between the **scalenus anterior** and the **scalenus medius** muscles.
- **roots stage** → the anterior primary rami of **C5, C6, C7, C8, T1**.
- **trunk stage** → **upper(C5, 6) - middle(C7) - lower(C8, T1)**.

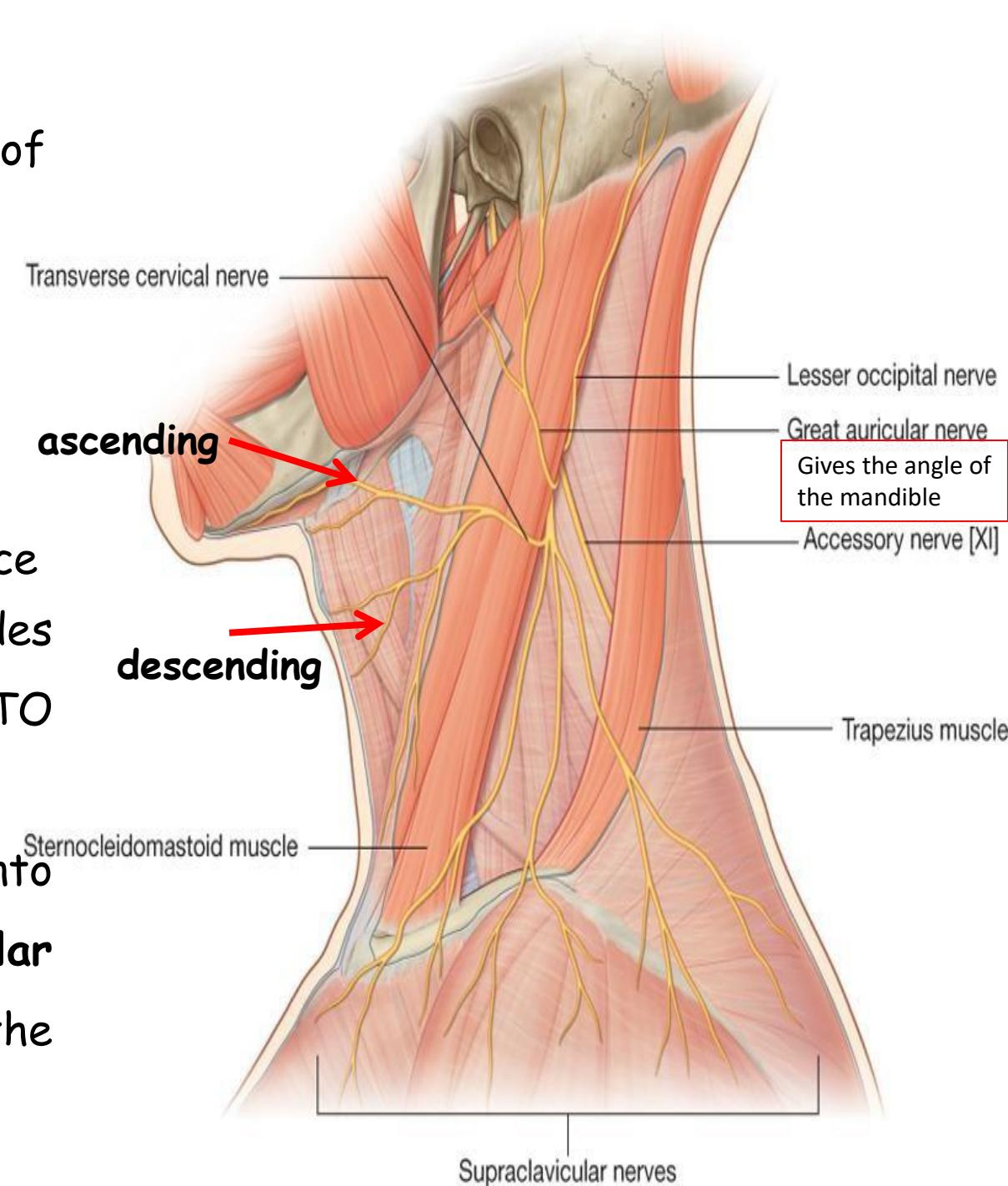


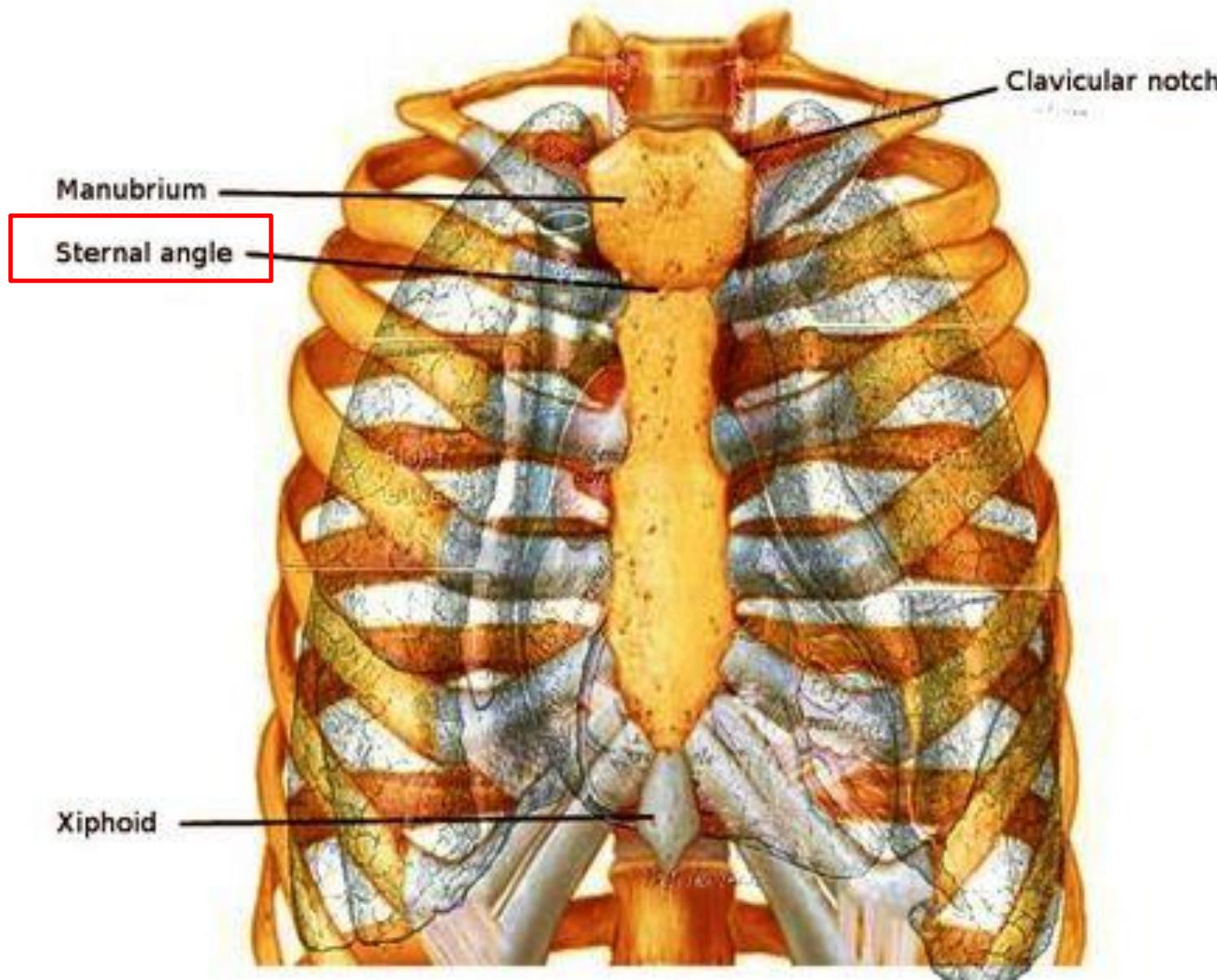
### 3-Cervical plexus [branches]:

**Site:** appear at the middle of the posterior border of the sterno-mastoid muscle **and diverge in different directions.**

#### Branches:

- a. The lesser occipital nerve (C2): see scalp
- b. The great auricular nerve (C2, 3): see scalp & face
- c. The transverse cervical nerve (C2, 3): Divides into **ascending** and **descending** branches TO Supply the skin of the front of the neck.
- d. The supraclavicular nerves (C3, 4): Divides into medial, intermediate & lateral supraclavicular nerves to Supply the skin of the front of the thorax down to the sternal angle.





## 4-Muscle :-

In the  
content

inferior belly of  
omohyoid.

## 5-Lymph nodes:

1 occipital L.N.  
at the apex:  
2 supra-clavicular  
L.N at the base:

