

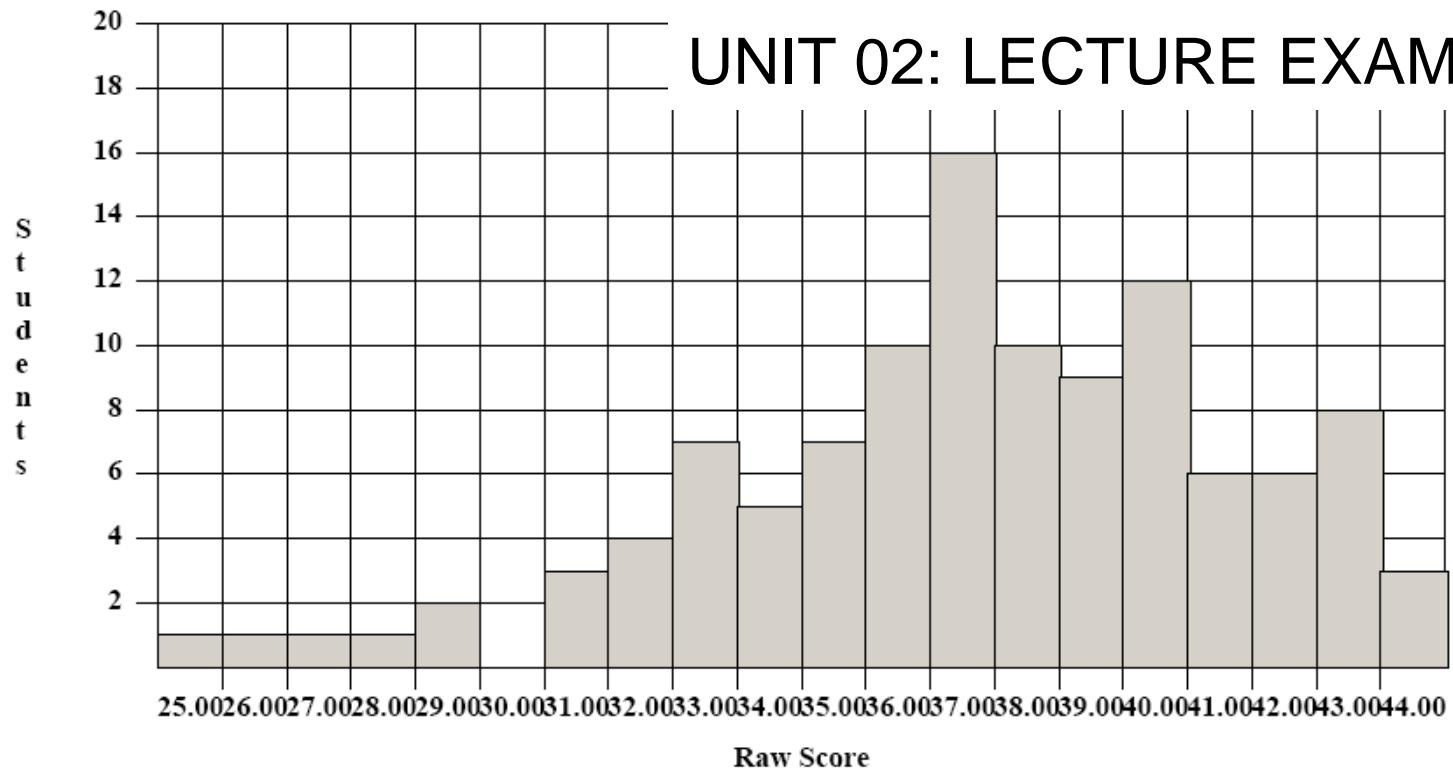
G15: Overview of the Neck

GL15:

A - Bone Lab (Skulls) HSEB 4300

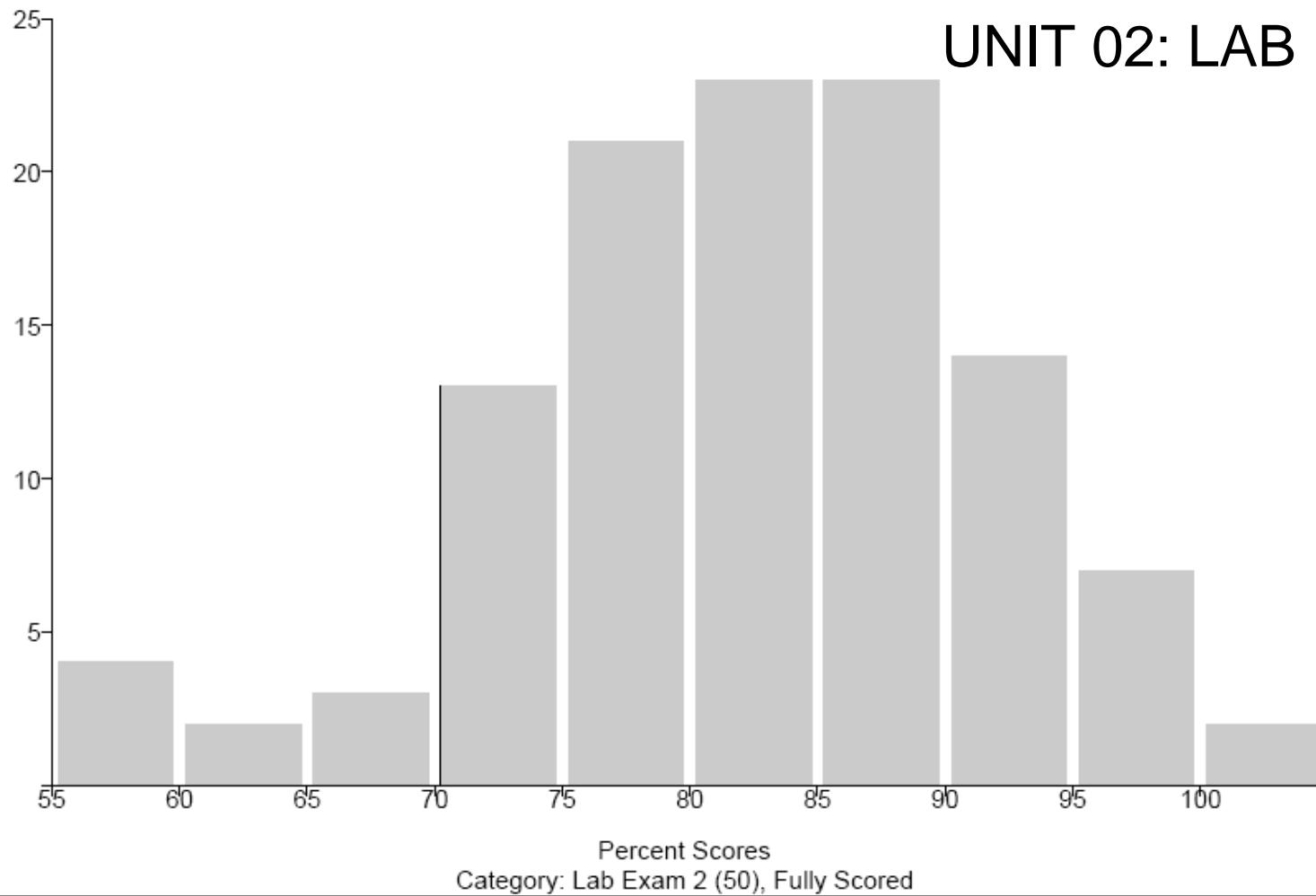
B - Posterior Triangle (Cadaver)

UNIT 02: LECTURE EXAM



Test Name:	Gross Anatomy Exam 2	
Test Date:	10/10/2008	
Number of Examinees:	112	
Number of Items:	46	
Maximum Possible Points:	46.00	
Highest Score:	44.00 (95.65)	
Lowest Score:	25.00 (54.35)	
Median:	37.00 (80.43)	
Mean:	37.21 (80.90)	
Standard Deviation:	4.03	
Test Reliability:	0.67	
Standard Error of Measurement:	2.33	

UNIT 02: LAB EXAM



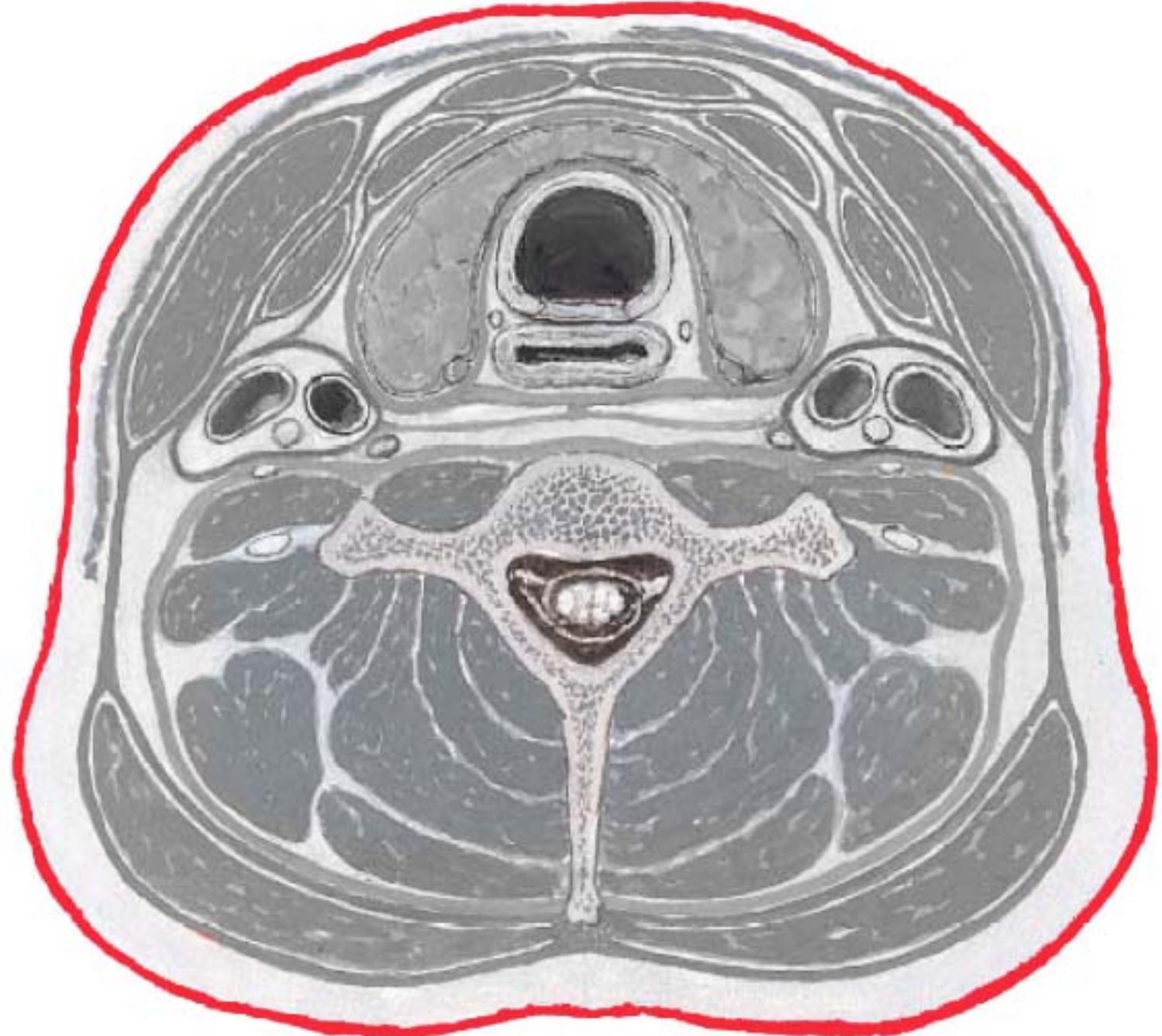
	Raw Score	Percent Score	Grade Name
Maximum	50.00	100.0	
Minimum	28.00	56.0	
Range	22.00	44.0	
Median	41.00	82.0	
Average	40.95	81.9	
Std deviation	4.71	9.4	

Statistics for 112 students, 100% of class.

G15: Overview of the Neck

David A. Morton, Ph.D.

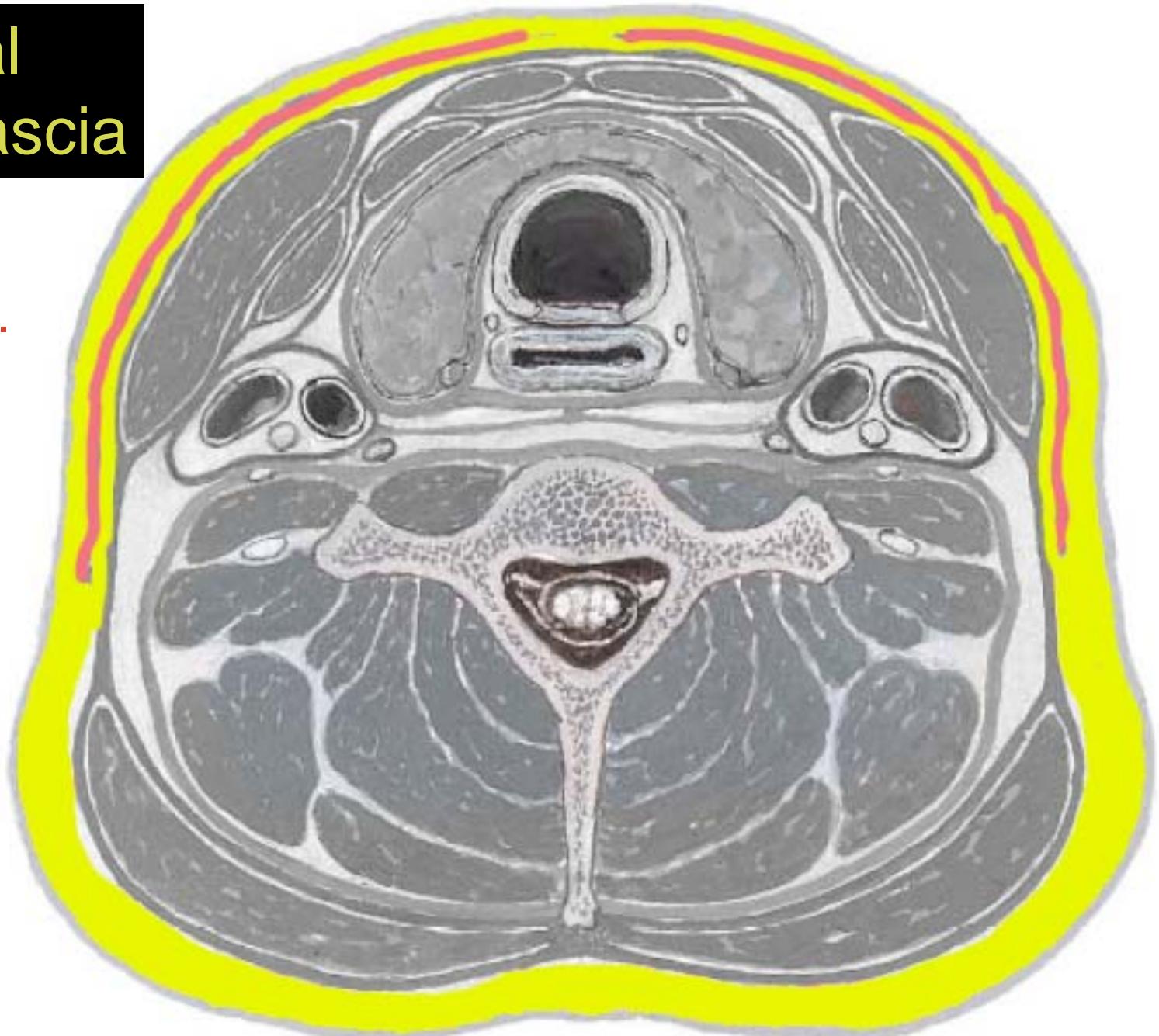
Skin



Pgs 3 & 4

Superficial cervical fascia

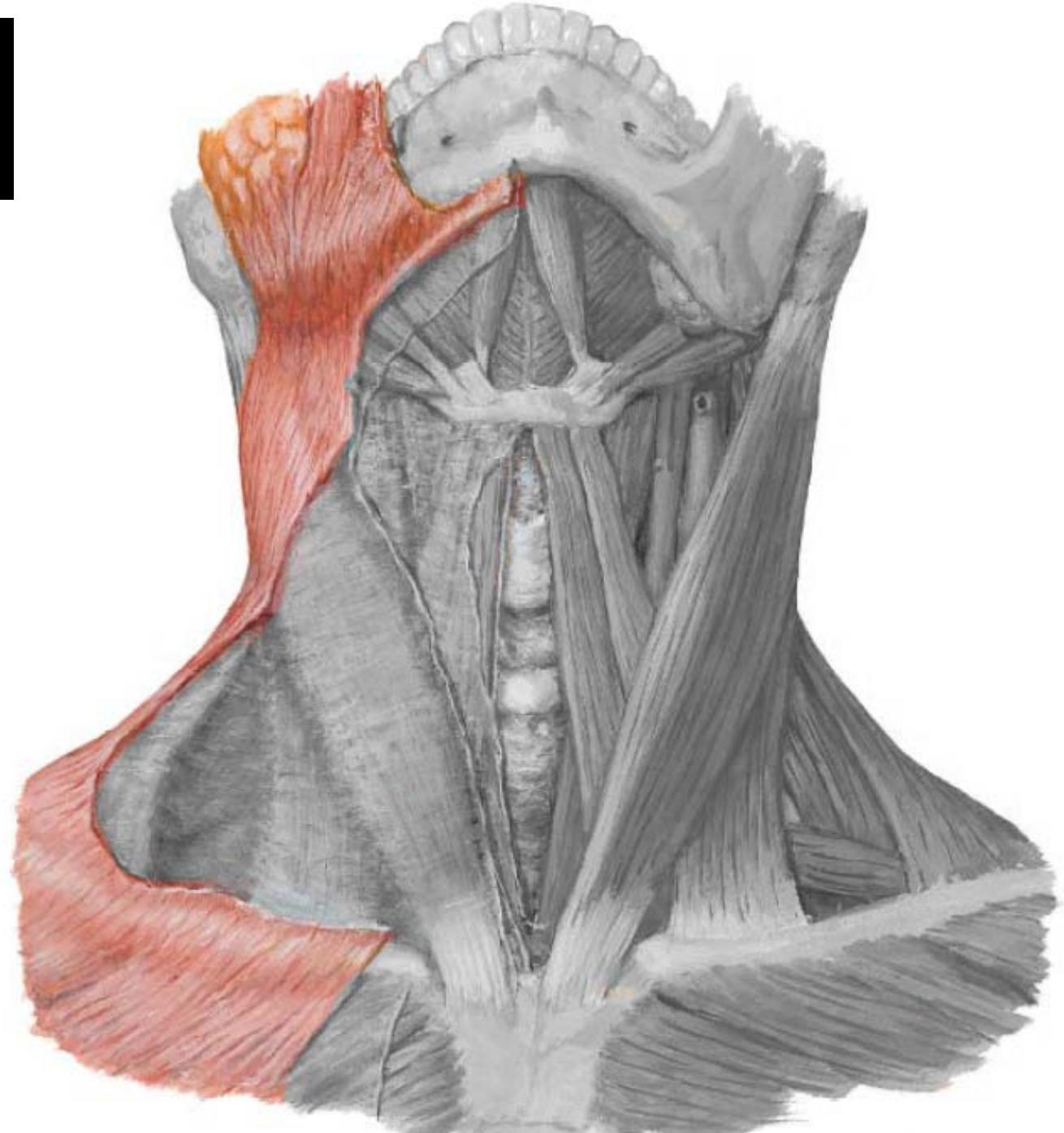
Platysma m.



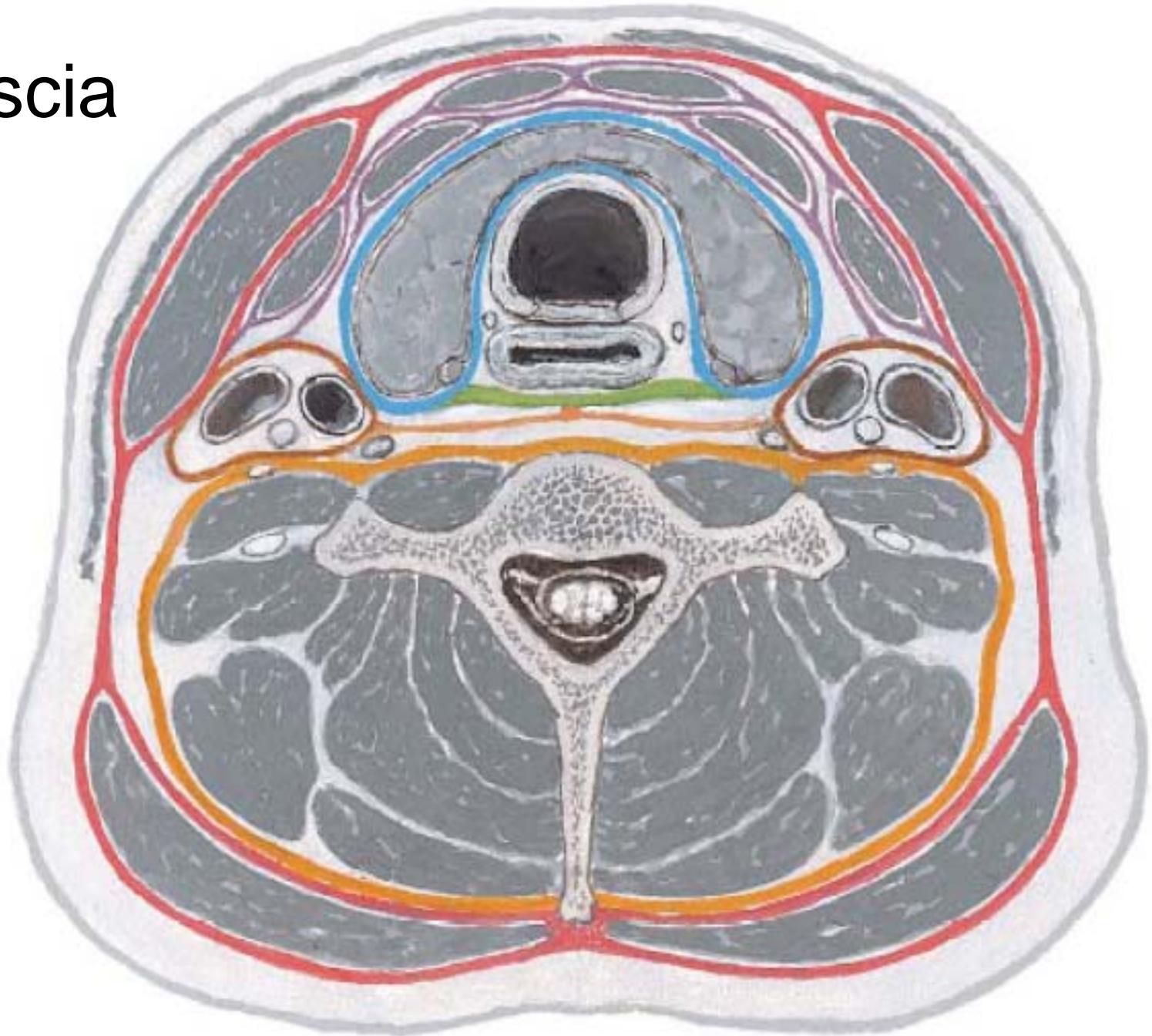
Pgs 3 & 4

Superficial cervical fascia

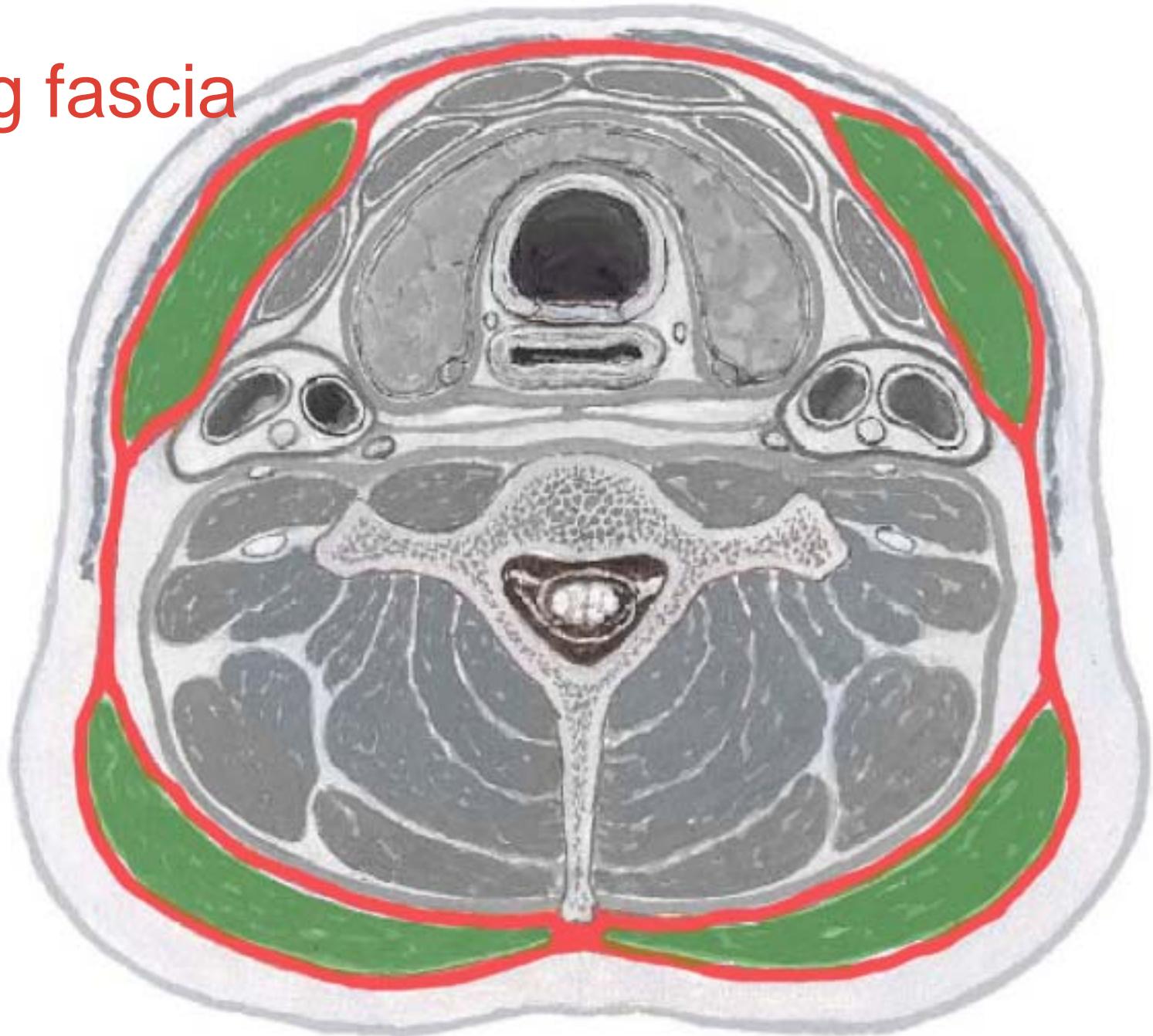
Platysma m.



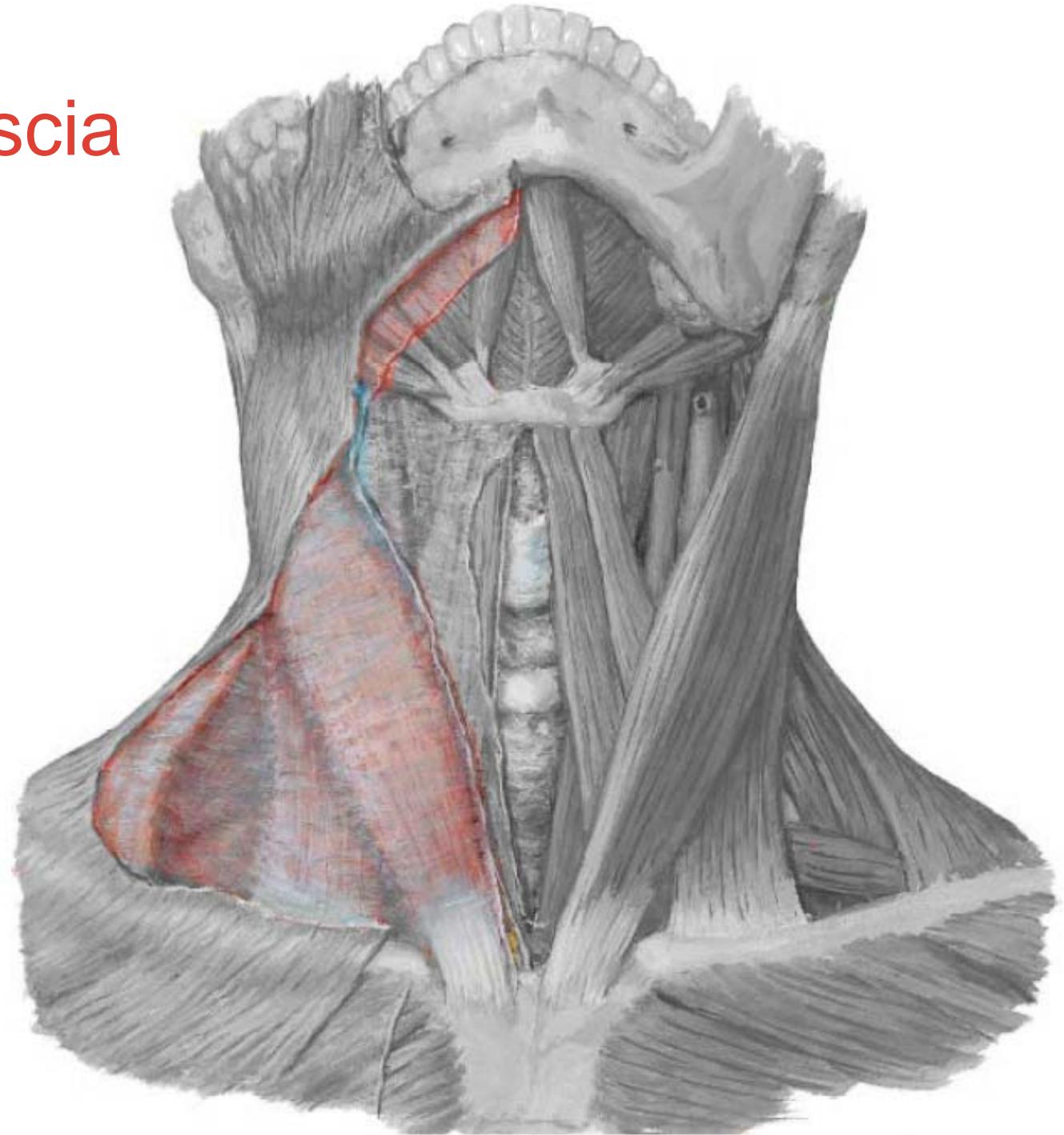
Deep fascia



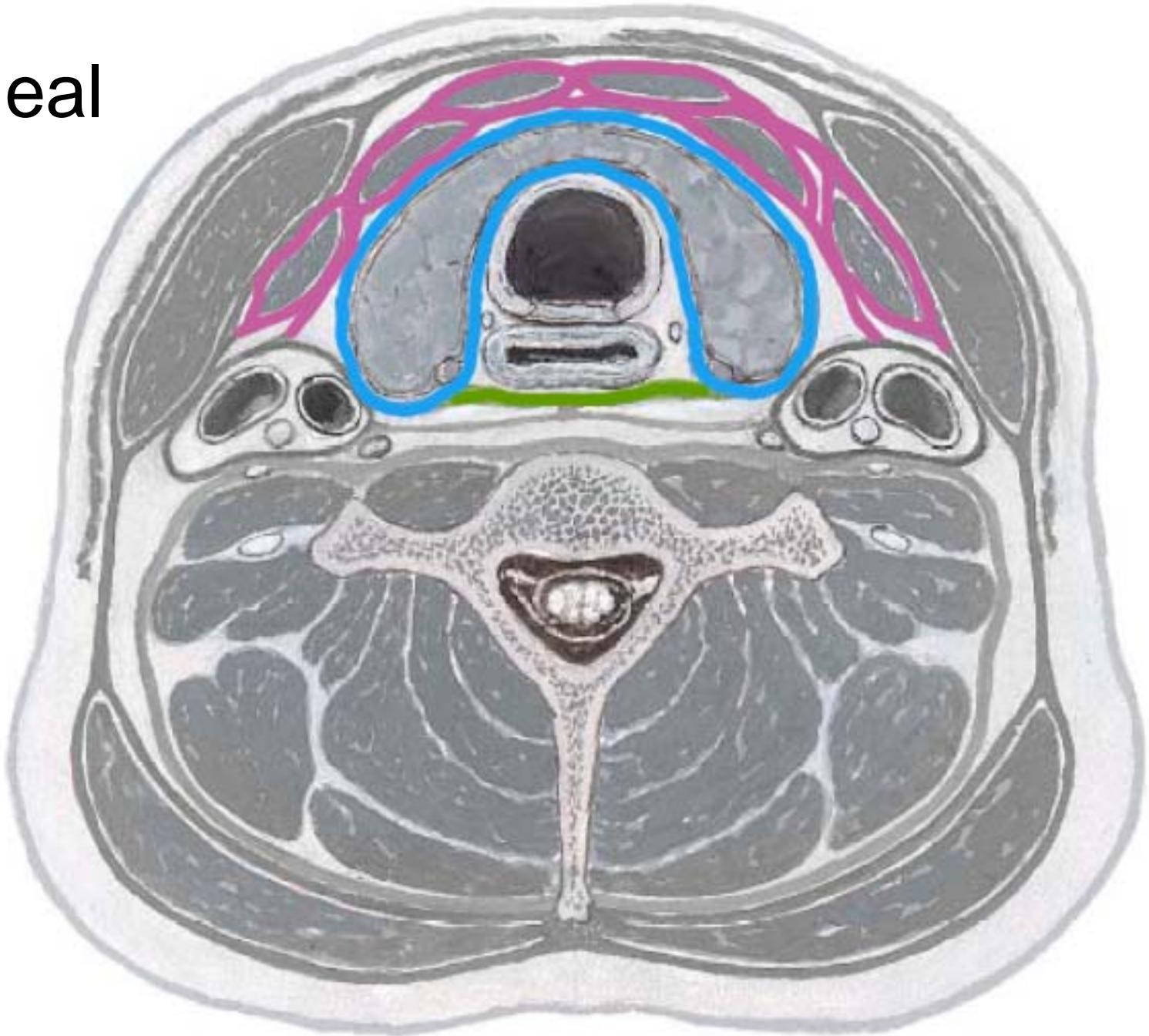
Investing fascia



Investing fascia

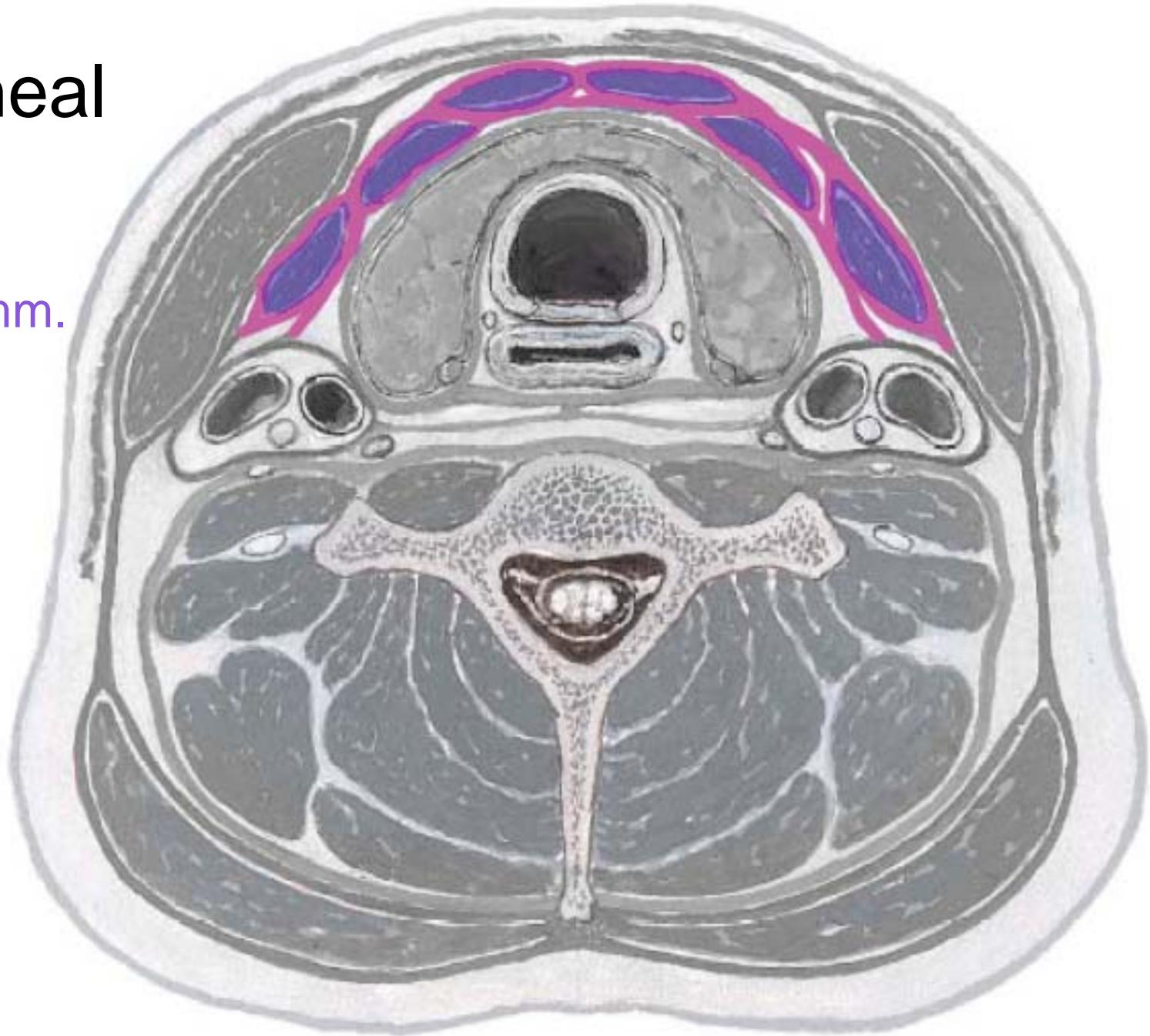


Pretracheal fascia



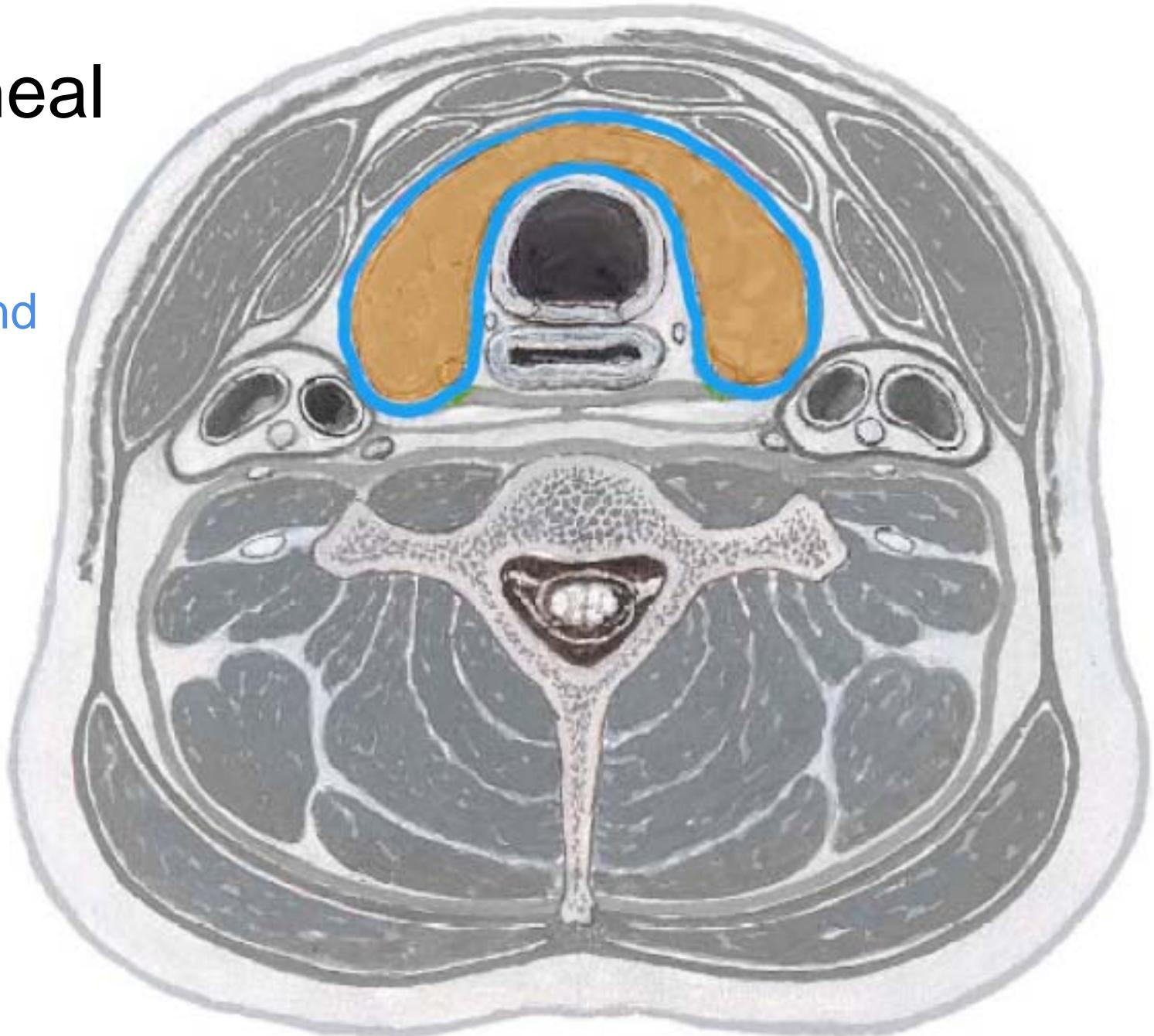
Pretracheal fascia

Infrahyoid mm.

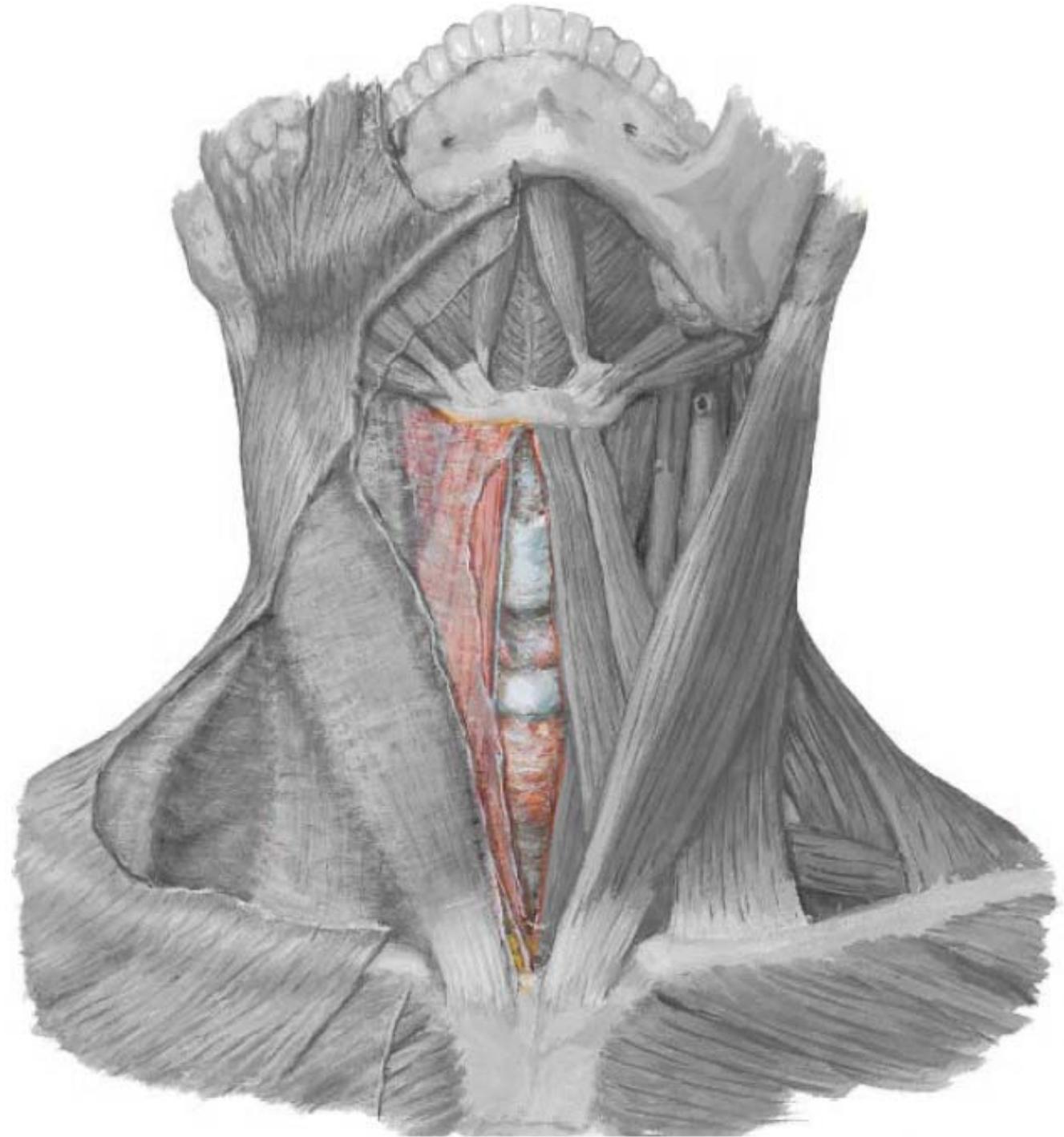


Pretracheal fascia

Thyroid gland



Pretracheal fascia

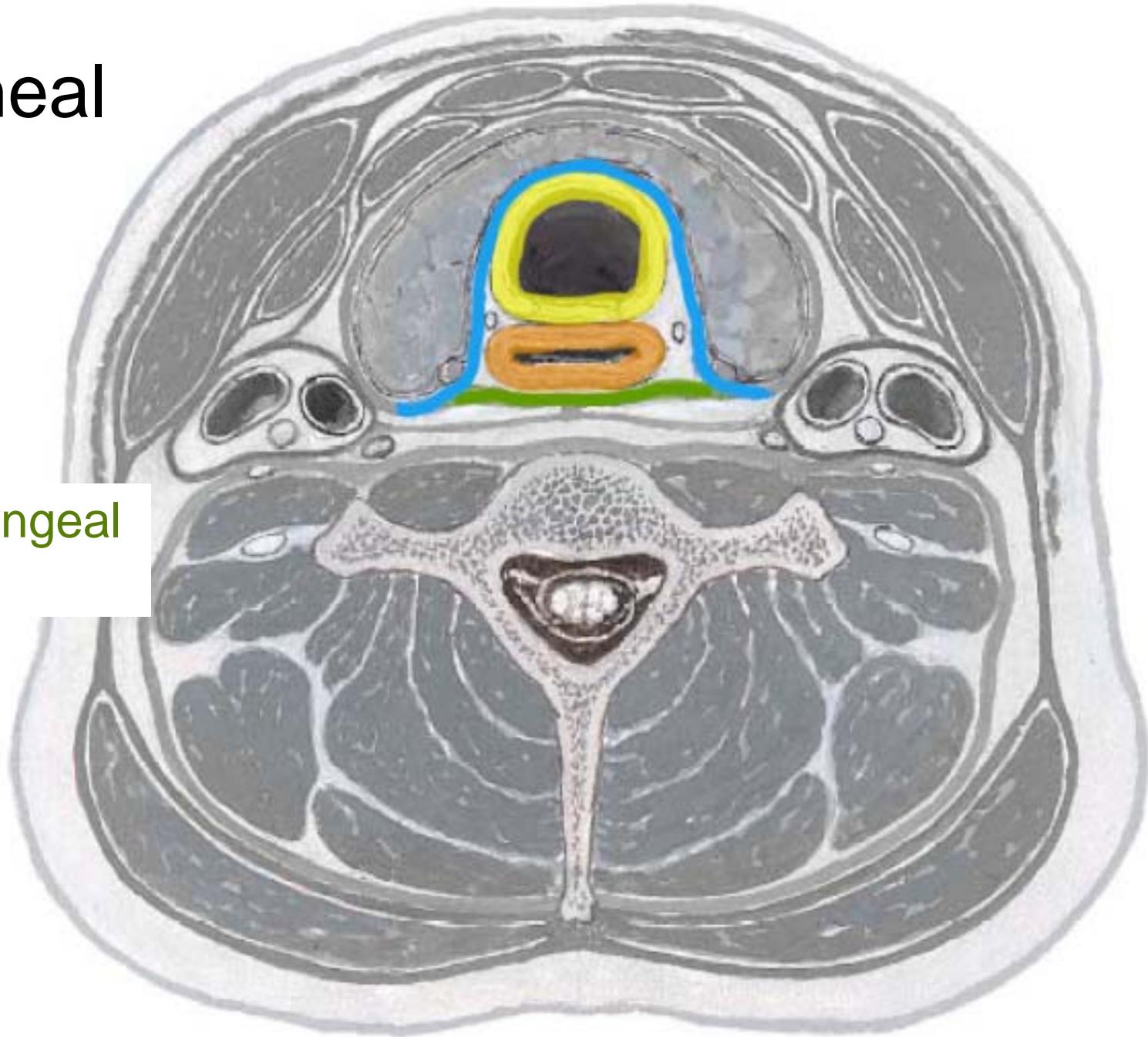


Pretracheal fascia

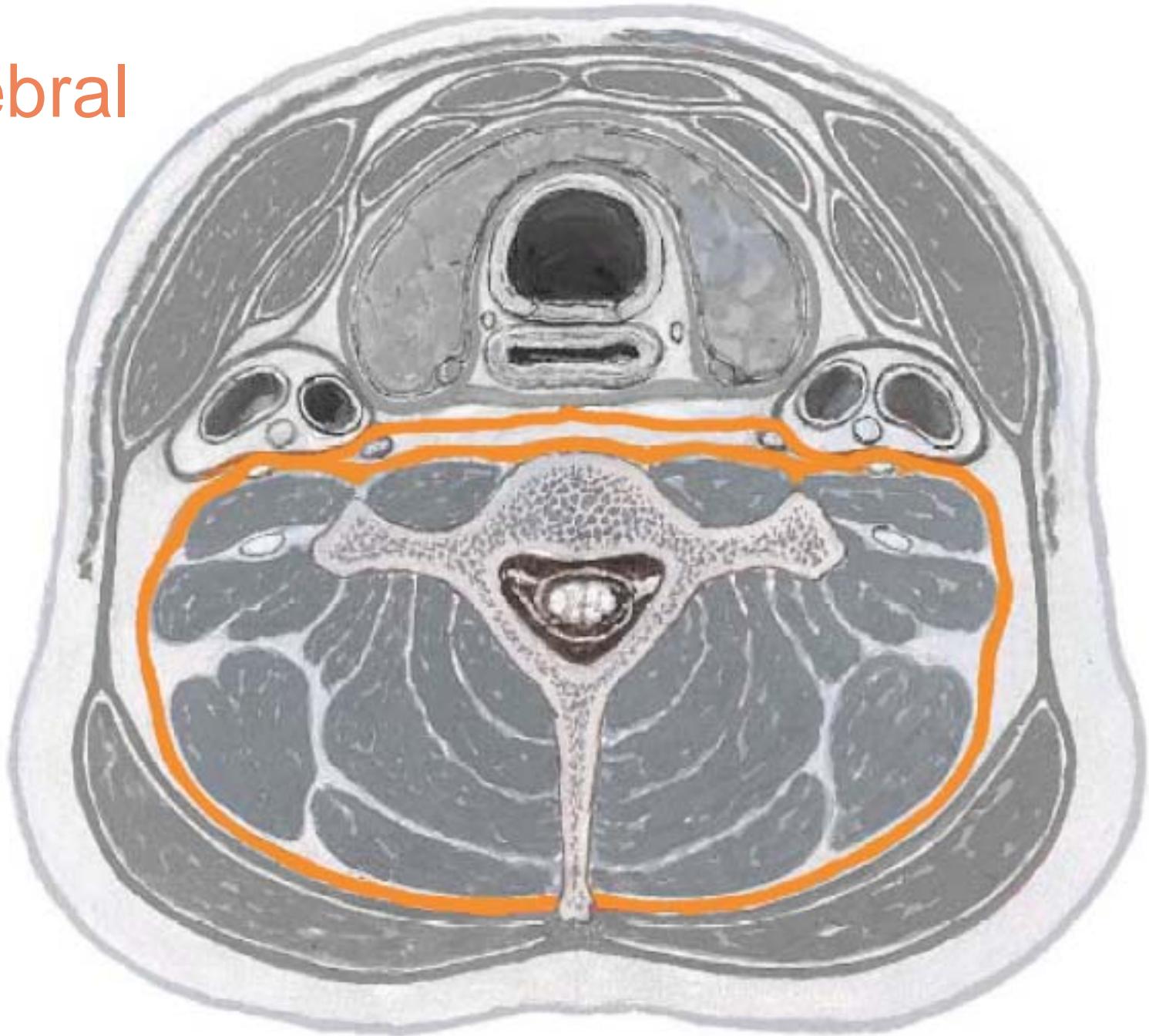
Trachea

Esophagus

Buccopharyngeal
fascia

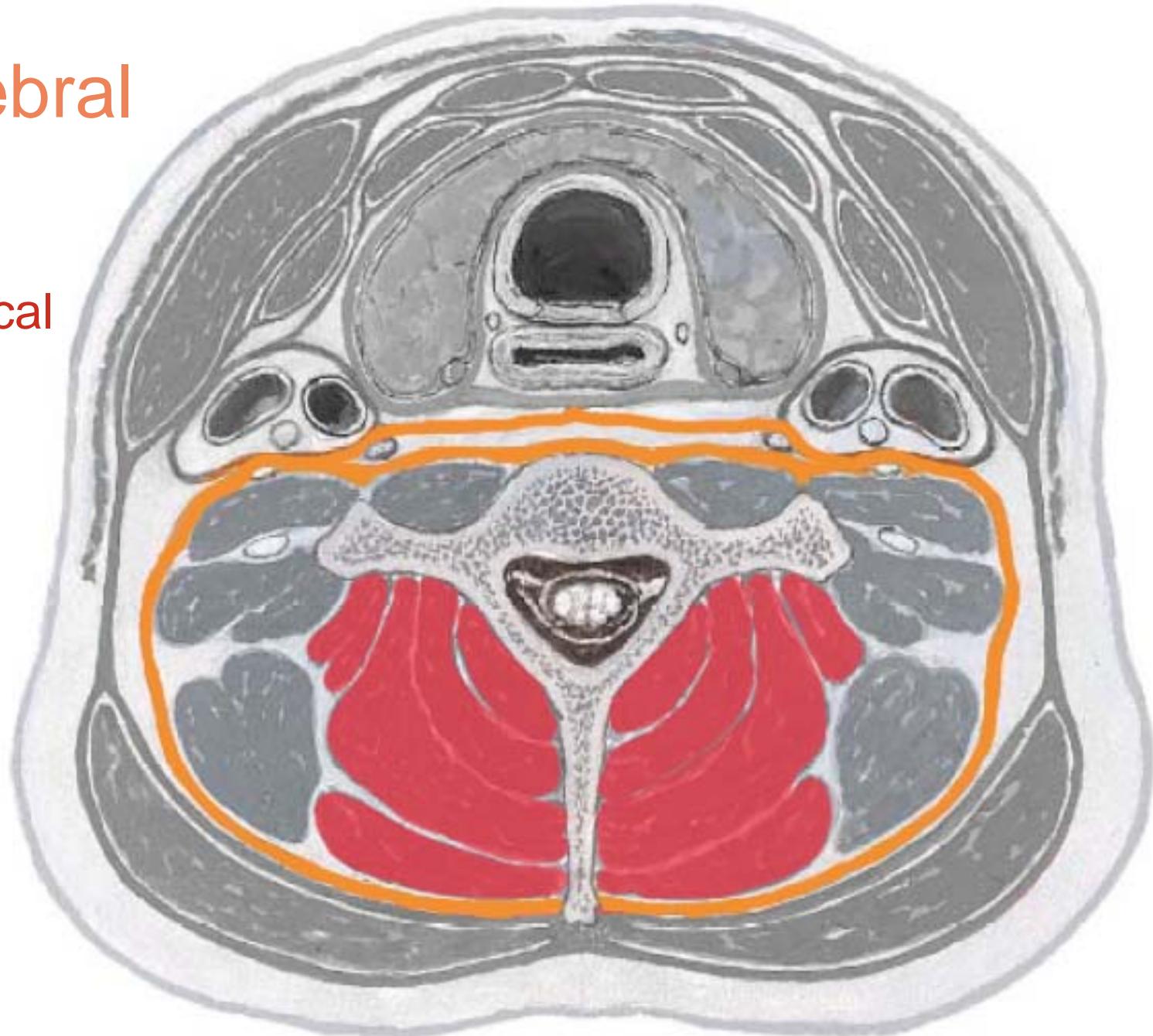


Prevertebral fascia



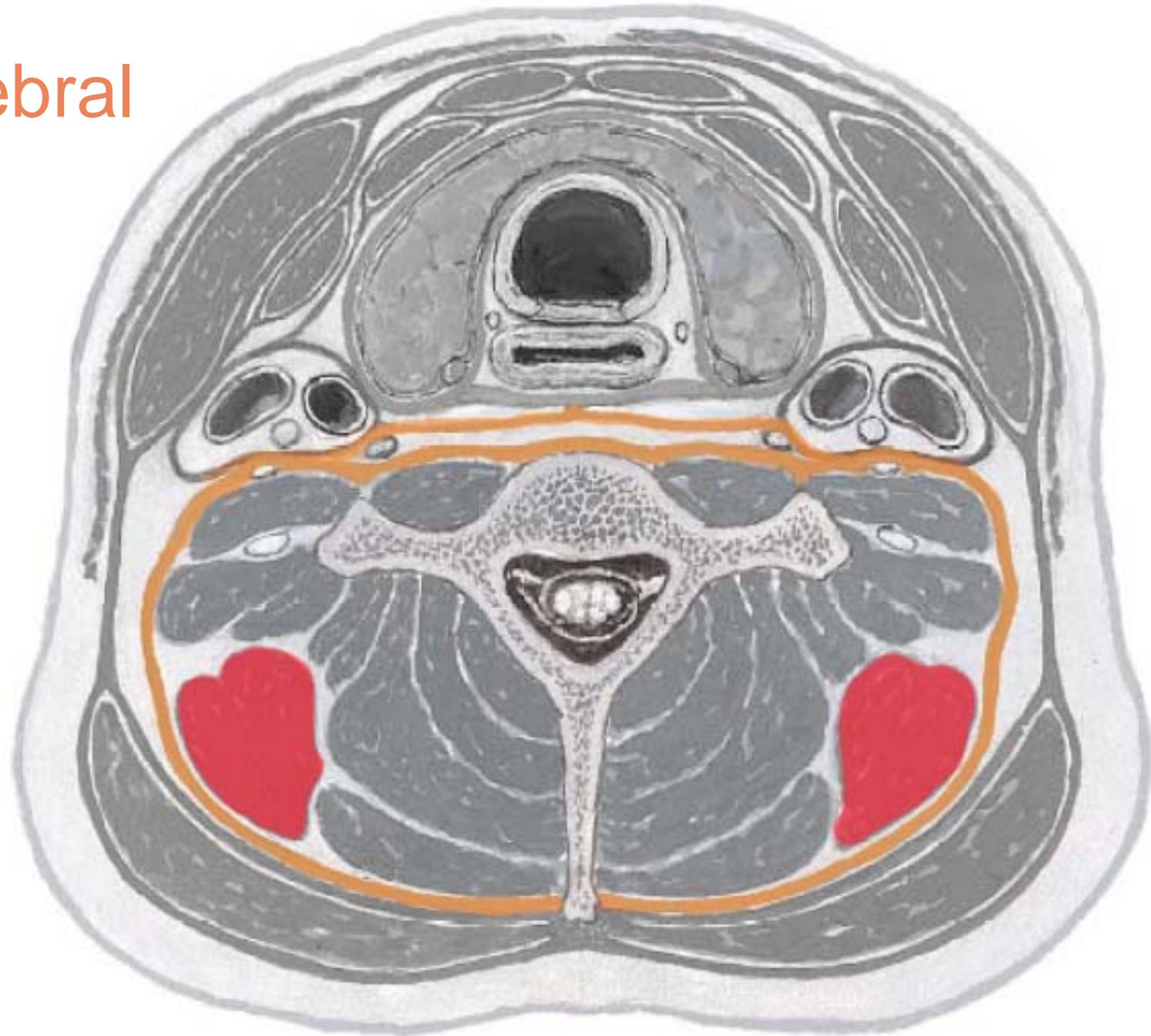
Prevertebral fascia

Deep cervical
mm.



Prevertebral fascia

Levator
scapulae m

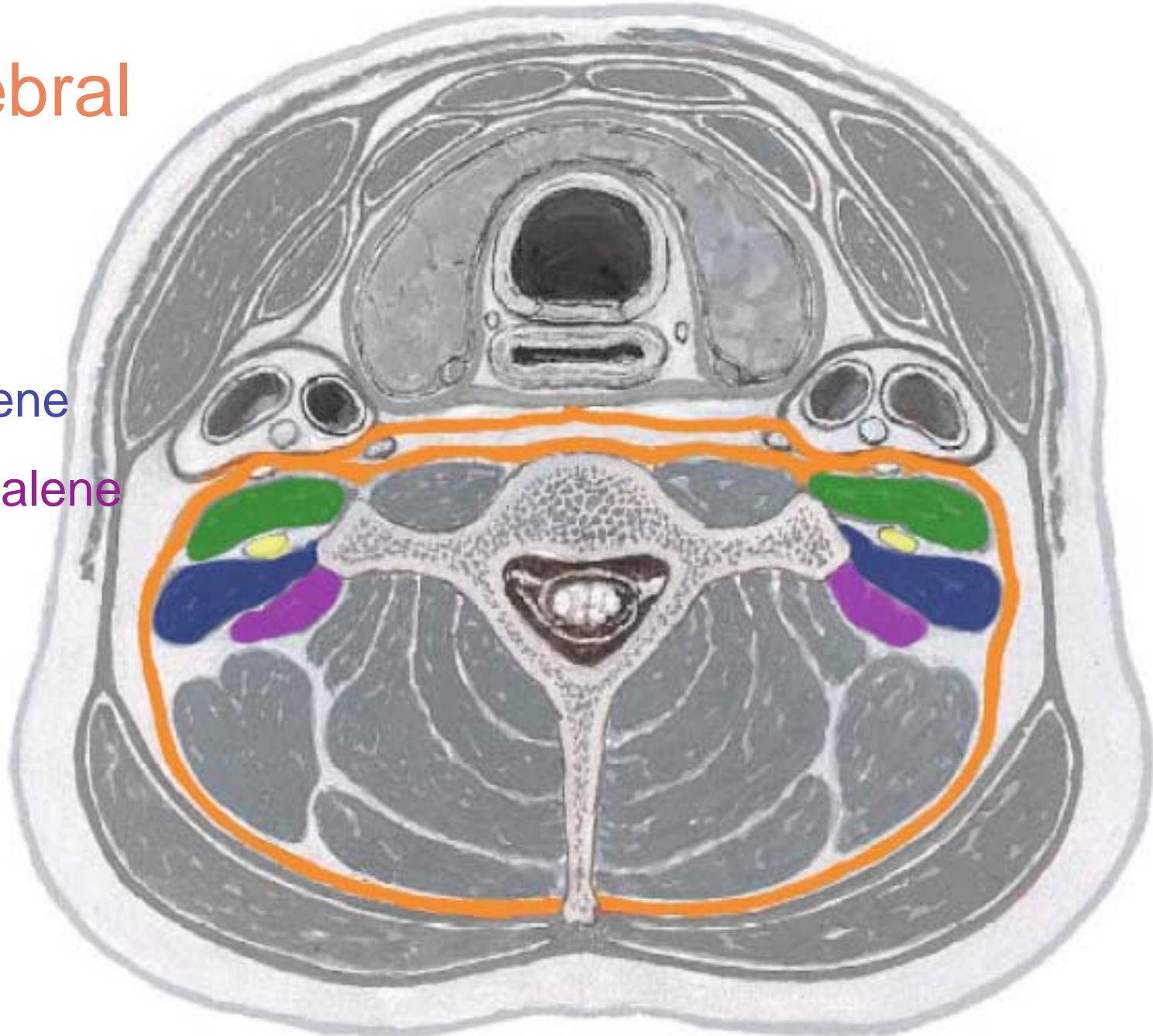


Prevertebral fascia

Ant scalene

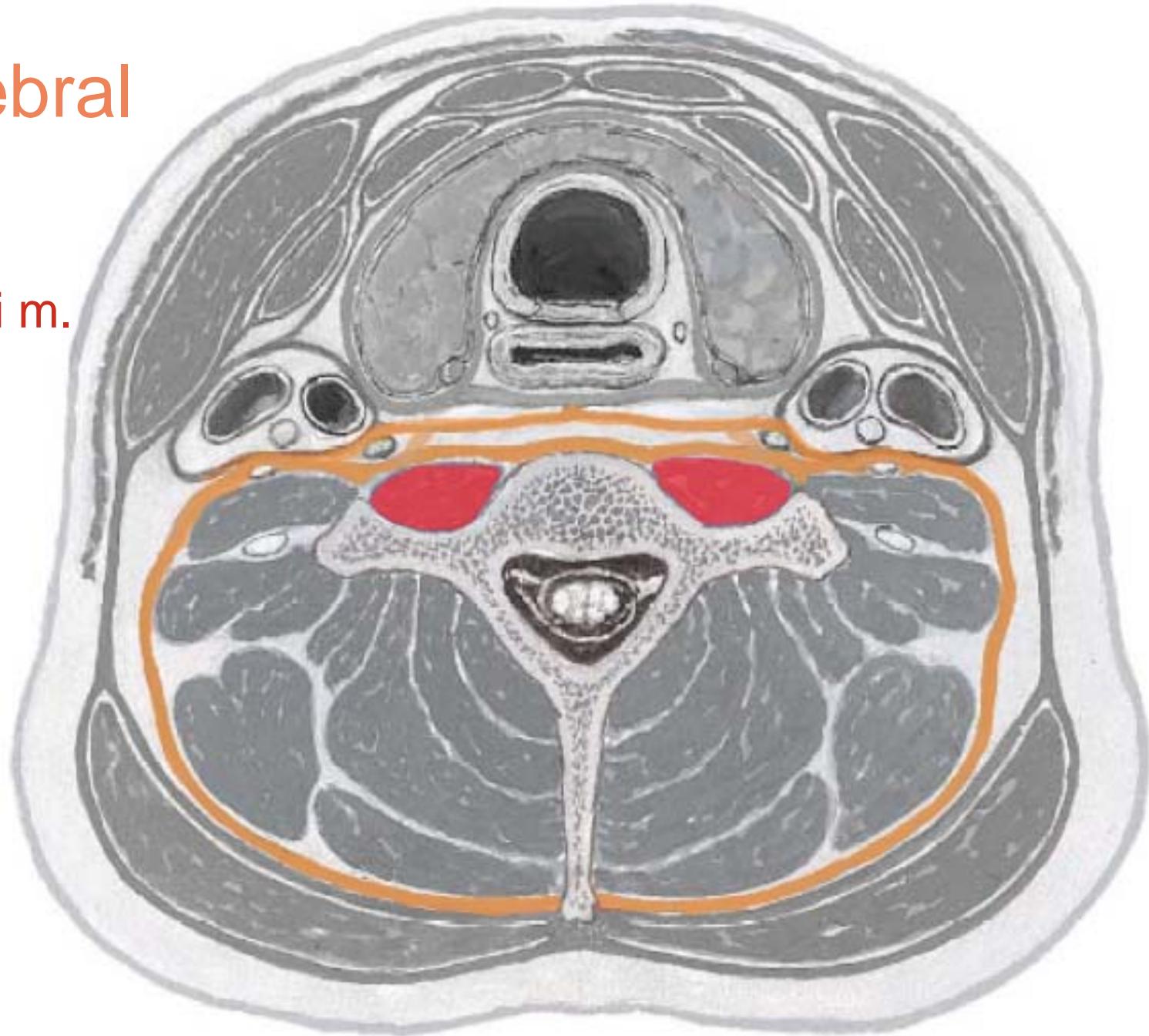
Middle scalene

Posterior scalene



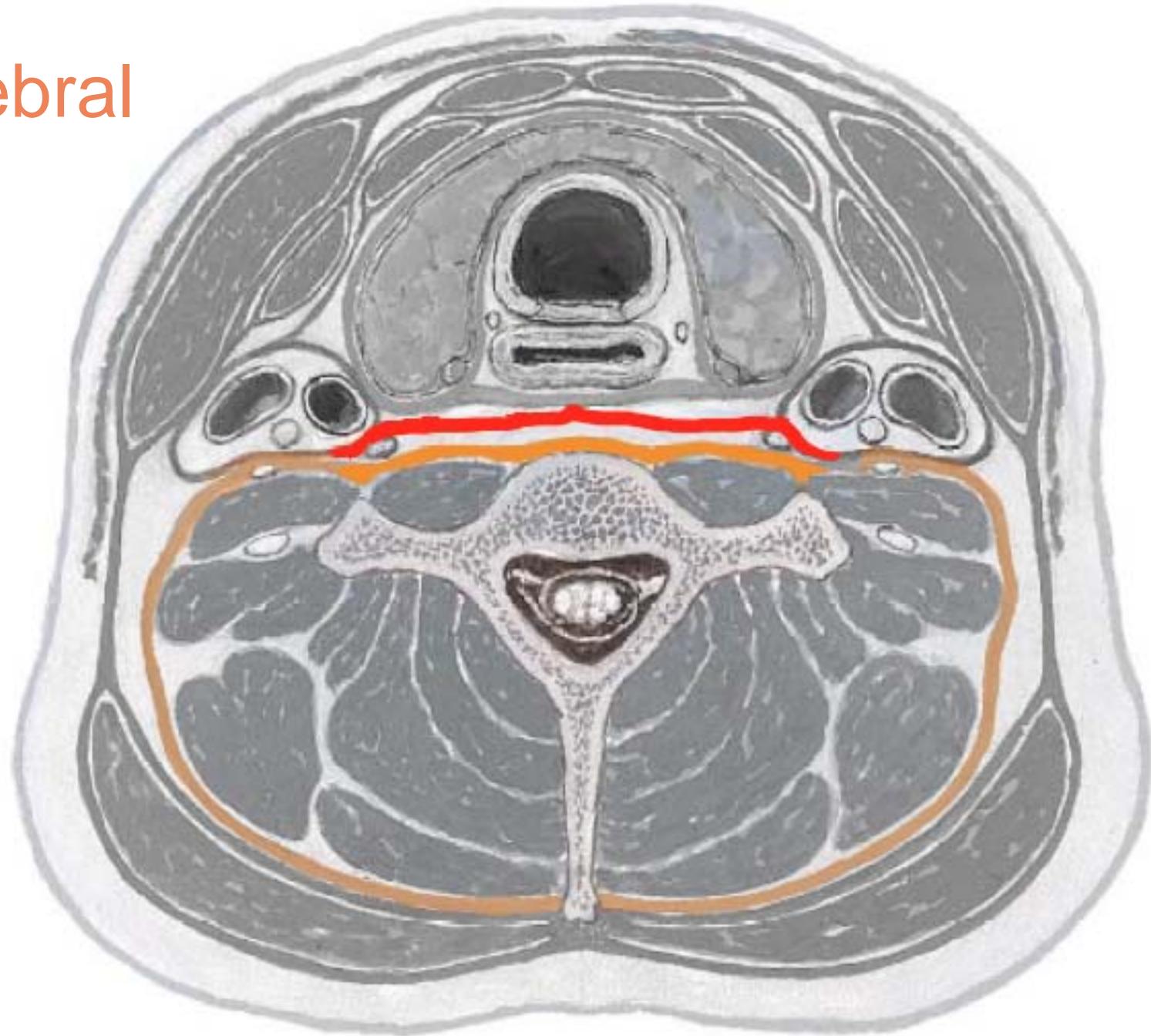
Prevertebral fascia

Longus colli m.



Prevertebral fascia

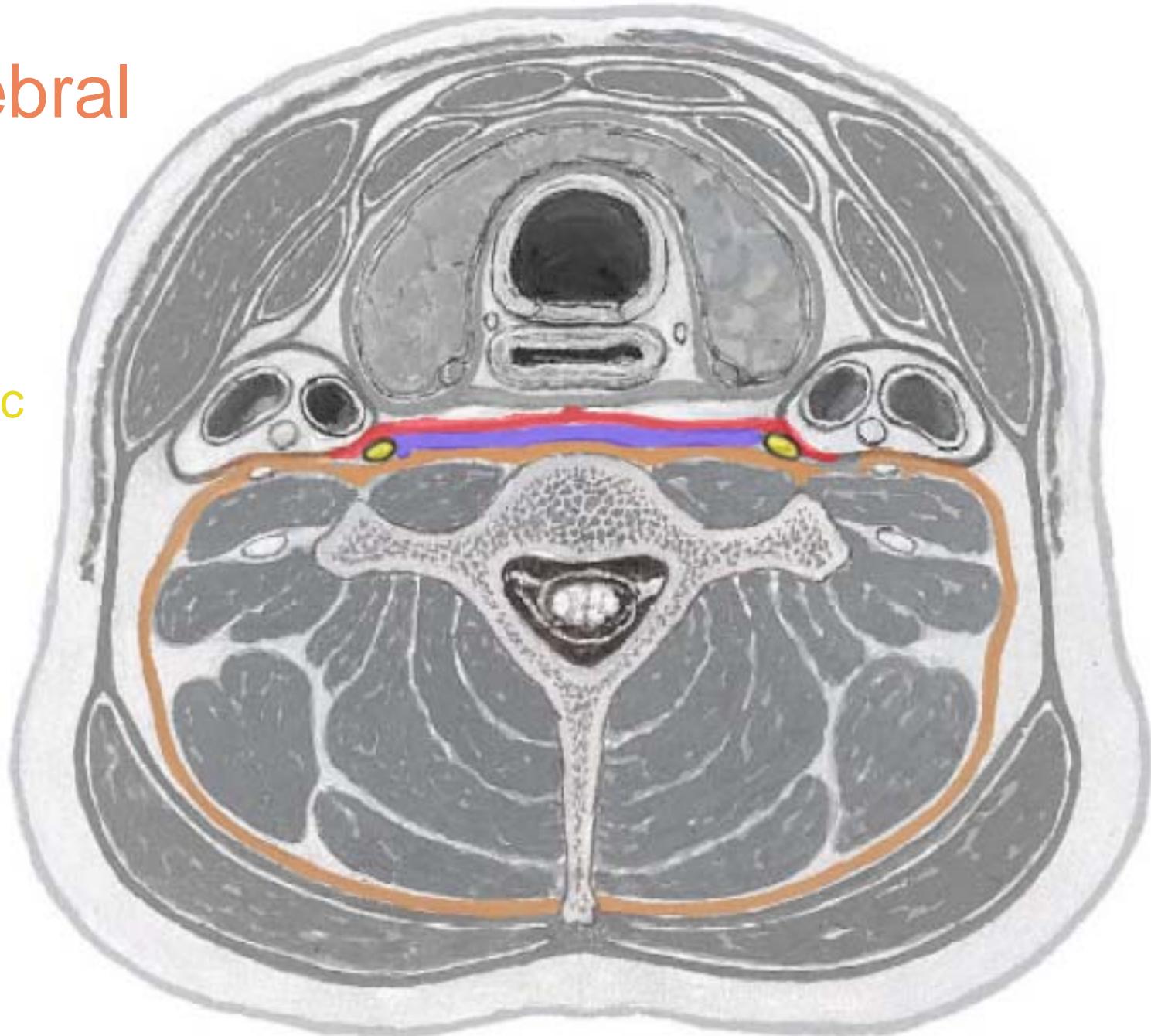
Alar fascia



Prevertebral fascia

Space

Sympathetic
trunk

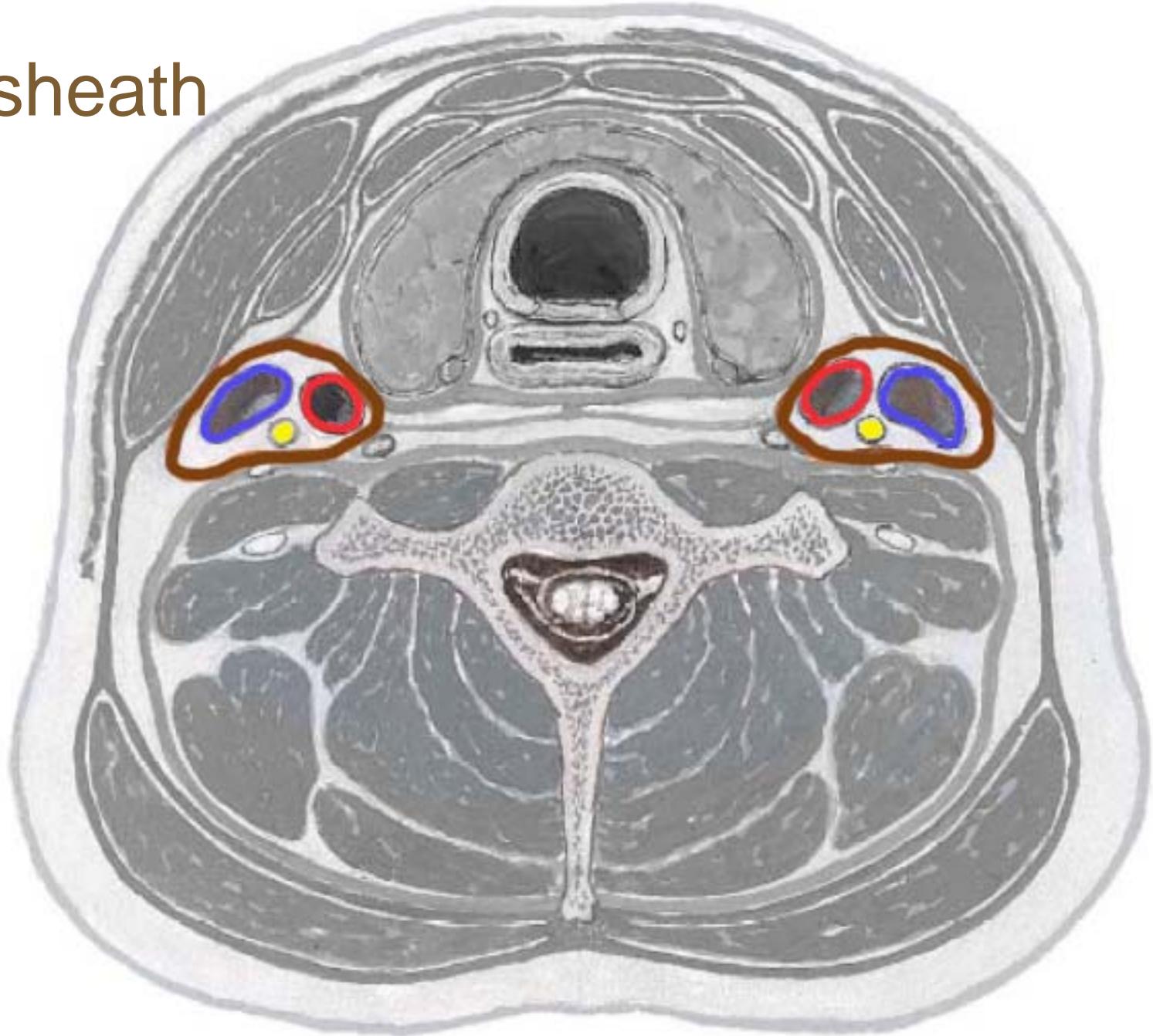


Carotid sheath

IVJ

Carotid a.

Vagus n.

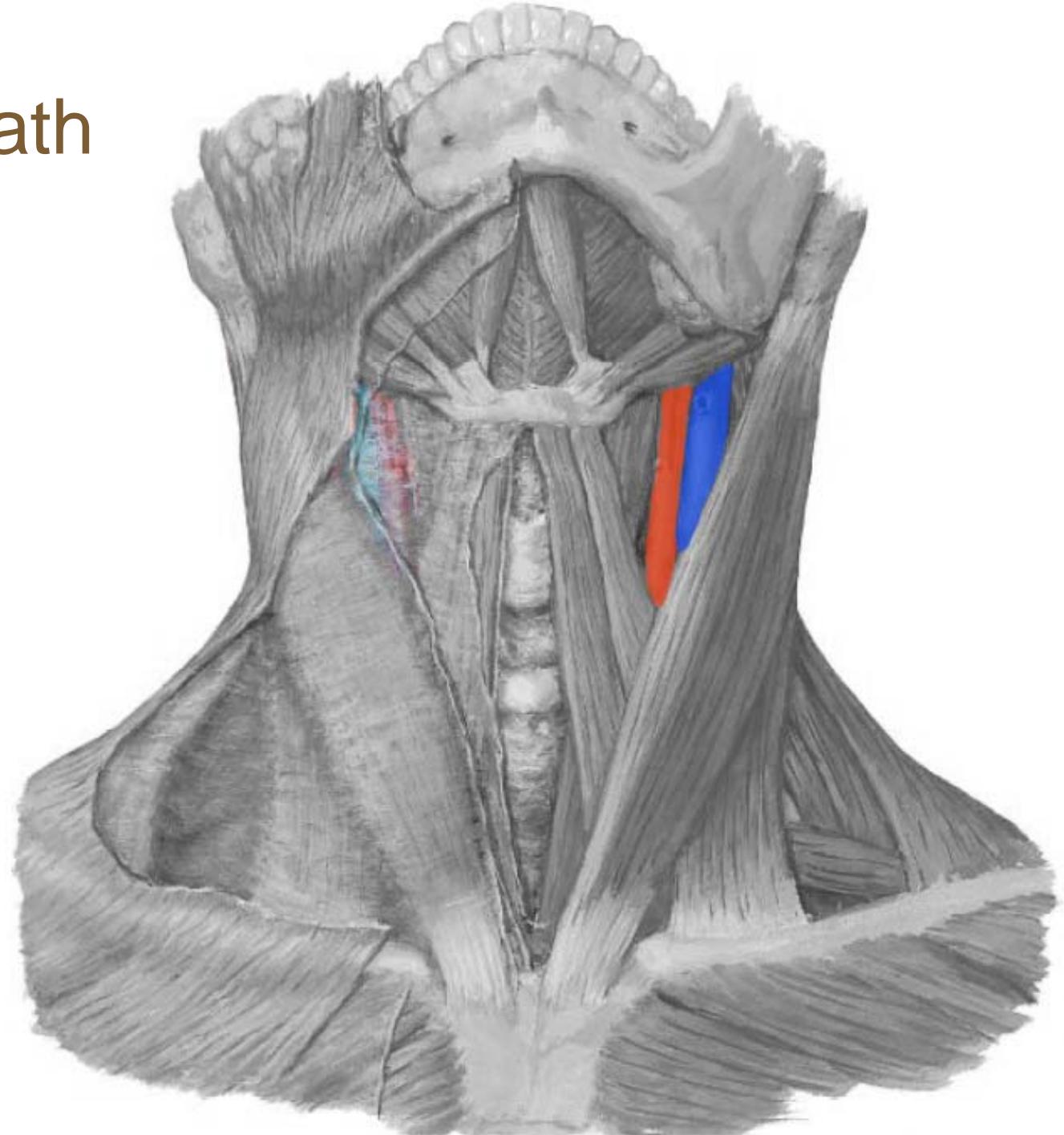


Carotid sheath

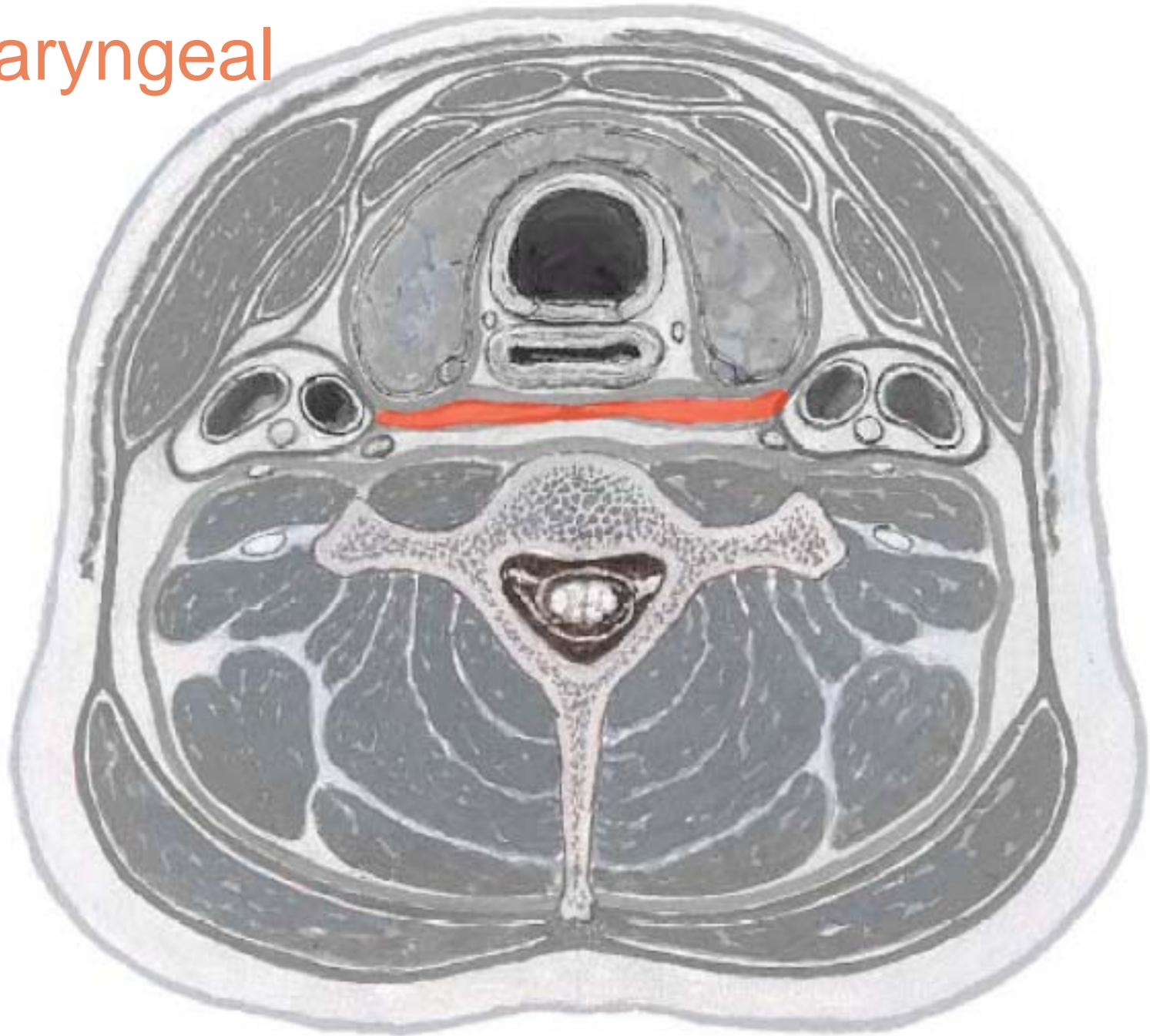
IJV

Carotid a.

Vagus n.



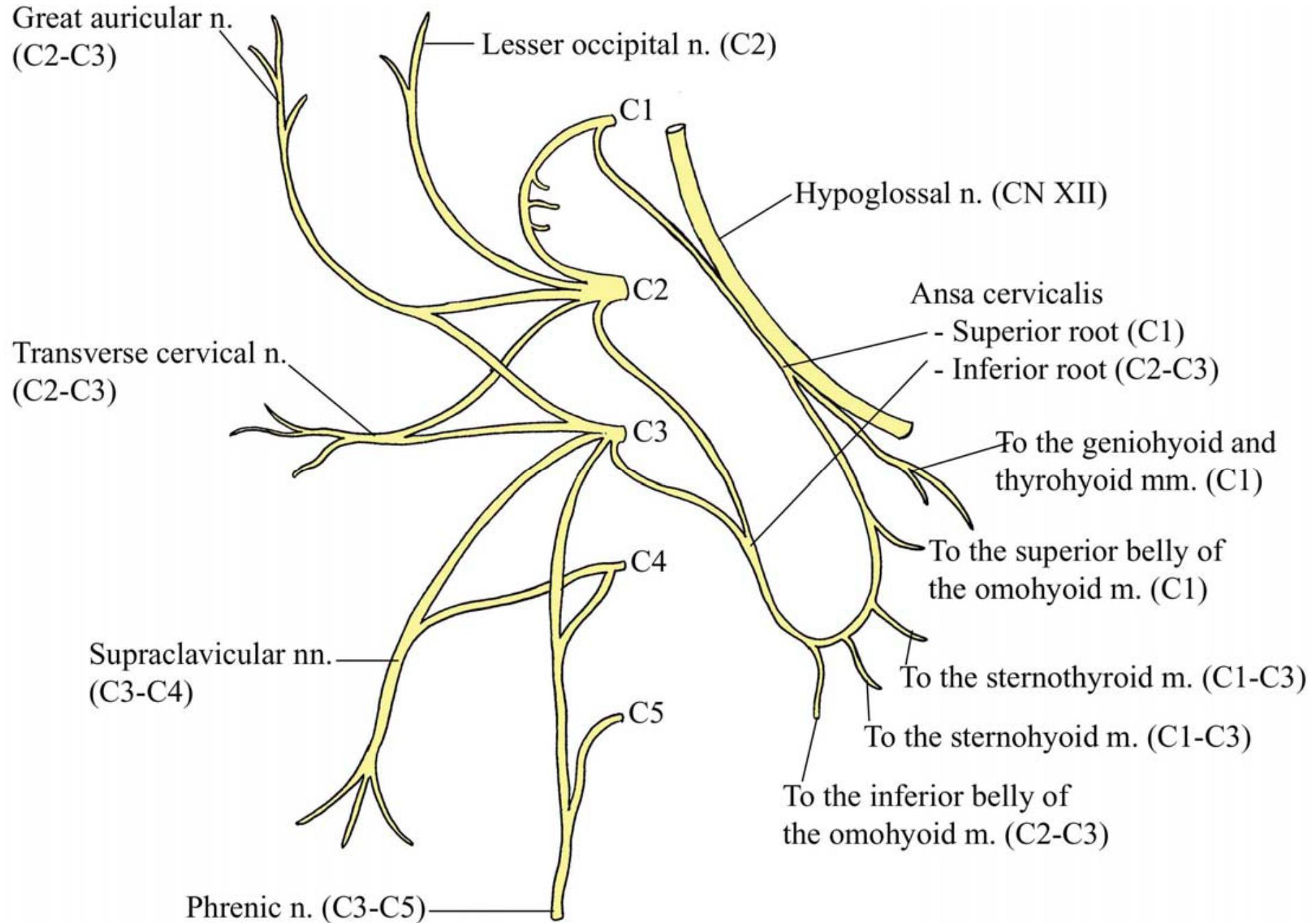
Retropharyngeal space



Cervical Plexus

- Ventral rami of C1-C4 (C5)
- Drawing the plexus ("9x2's")
 - 2 up
 - 2 across
 - 2 X
 - 2 down
 - 2 down
 - 2 loop
 - 2 ends (out)
 - 2 ends (in)
 - 2 on top

Don't forget the phrenic n. (C3, C4 and C5 keep the diaphragm alive)

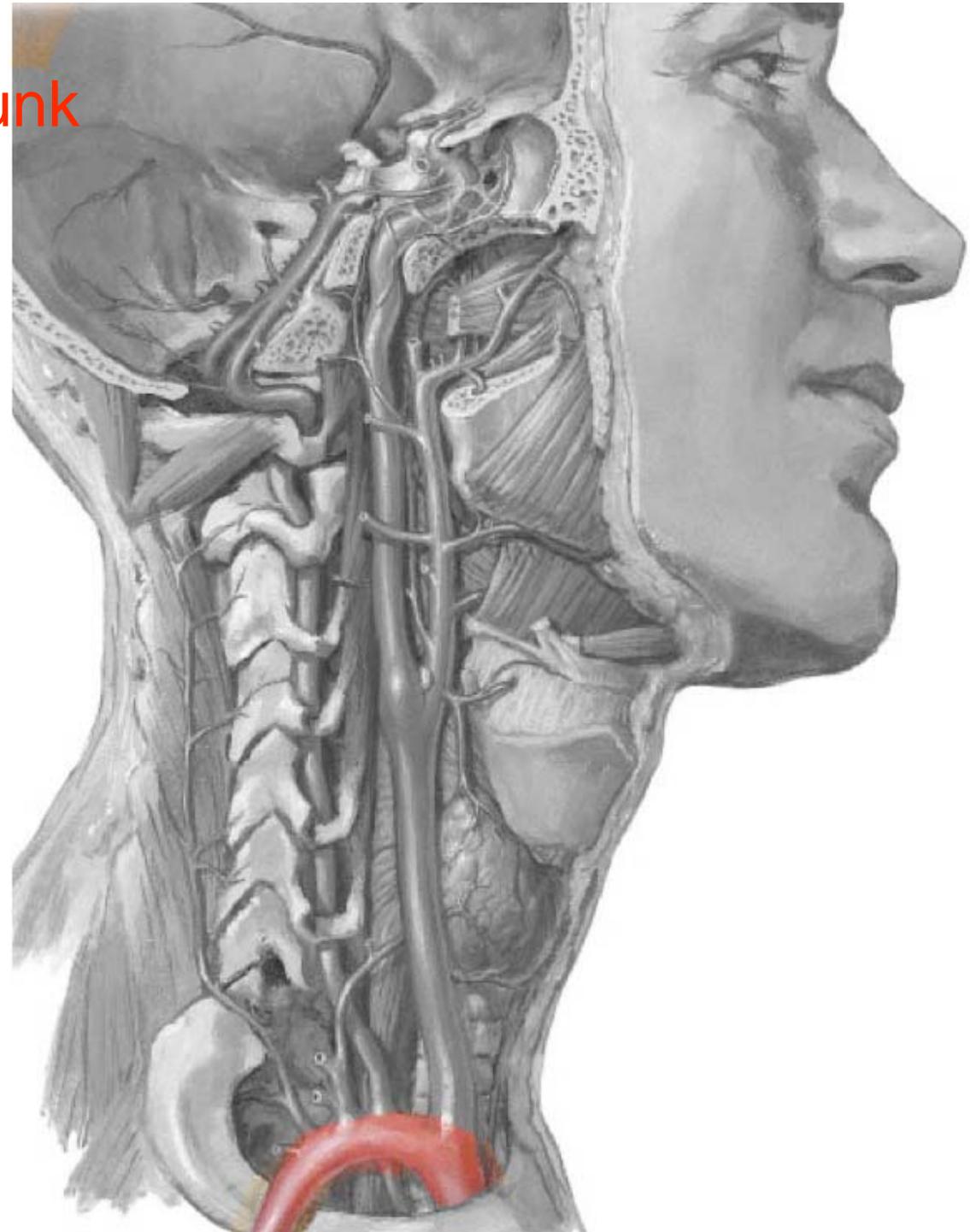


Vessels of the Head and Neck

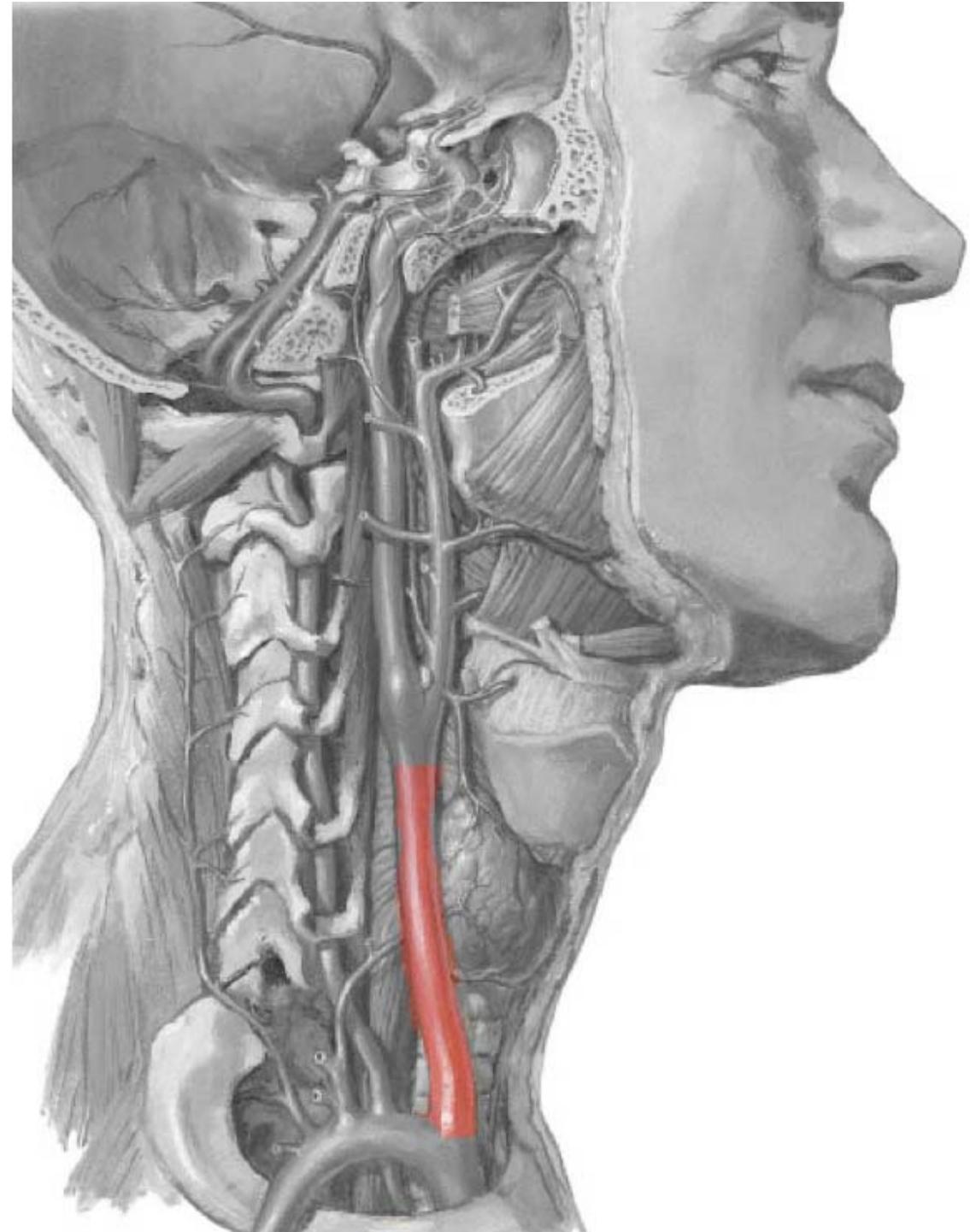
- Artery - Carotids
 - Neck and Face: External carotid artery (ECA)
 - Brain: Internal carotid artery (ICA)
- Veins - Jugulars
 - Internal jugular vein (IJV)

R: Brachiocephalic trunk

L: Left subclavian a.



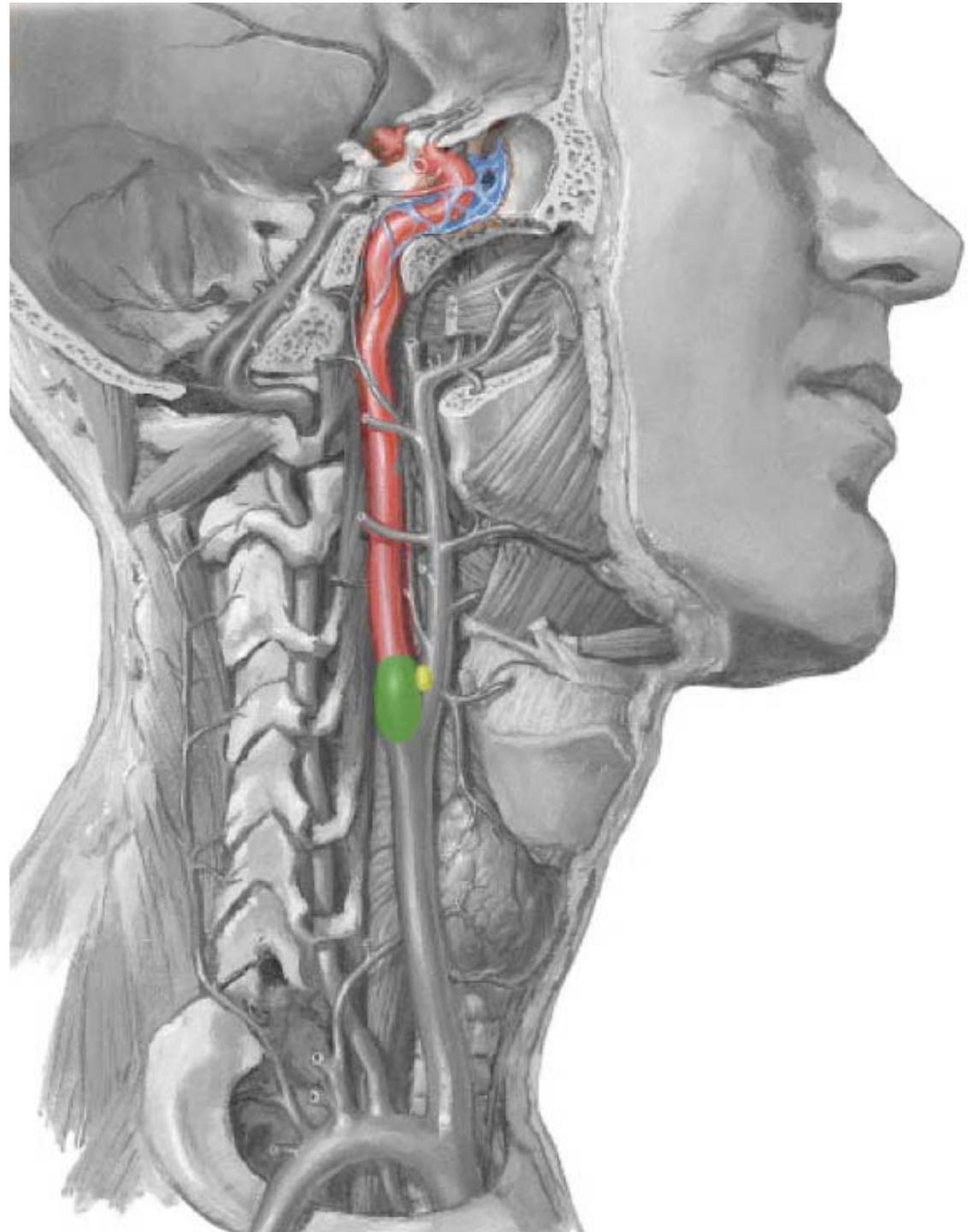
Common carotid a.



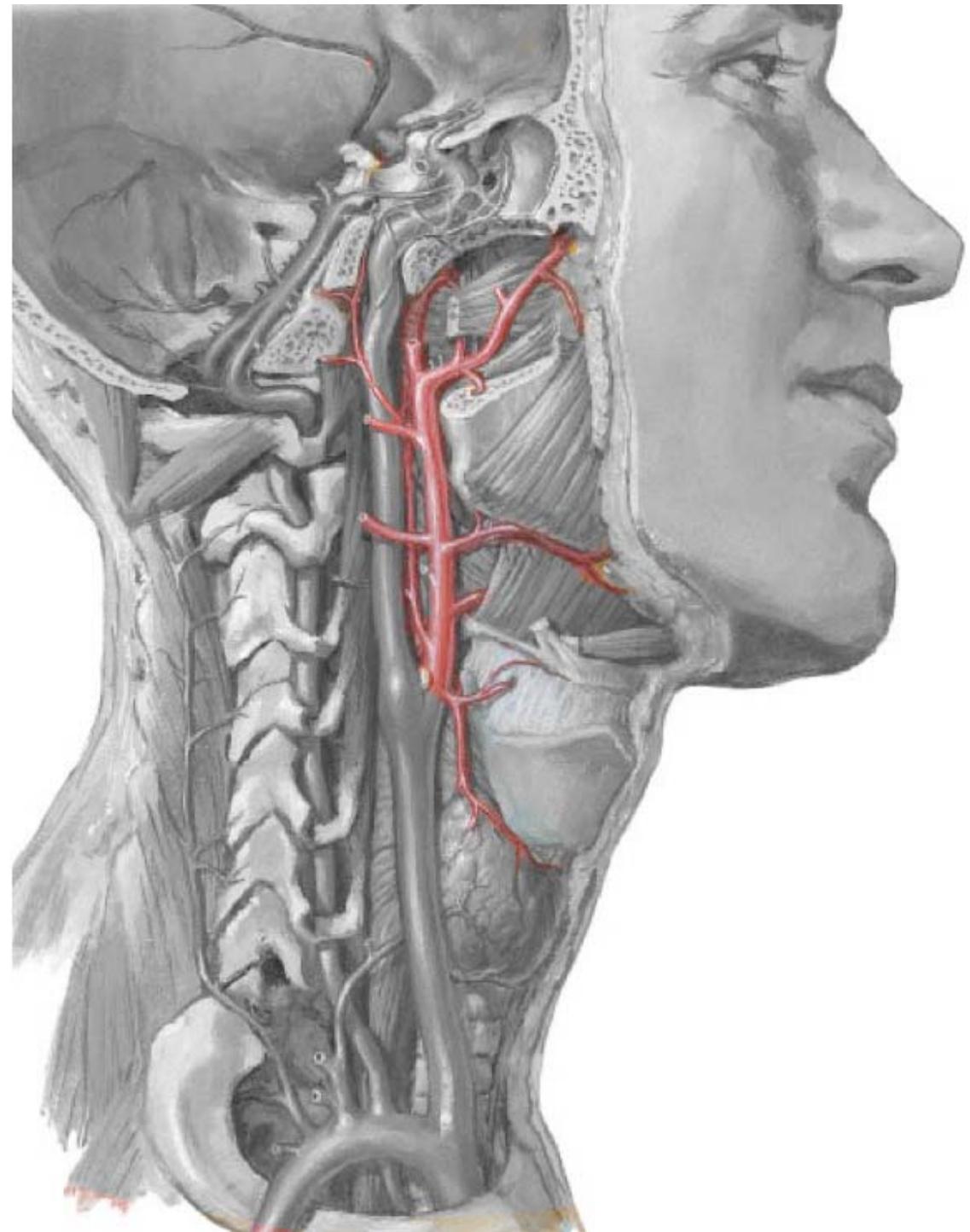
Internal carotid a.

Carotid sinus

Carotid body

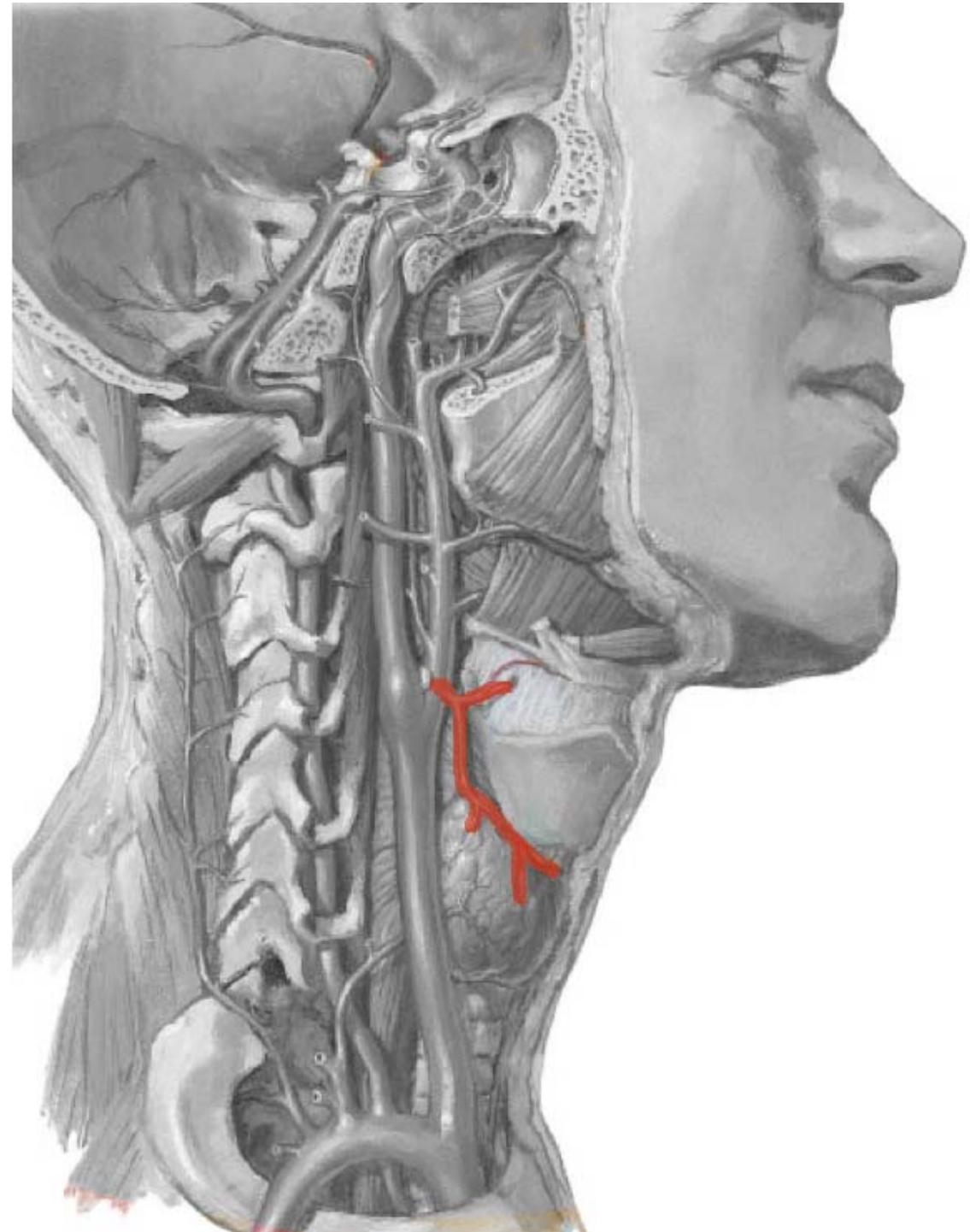


External carotid a.



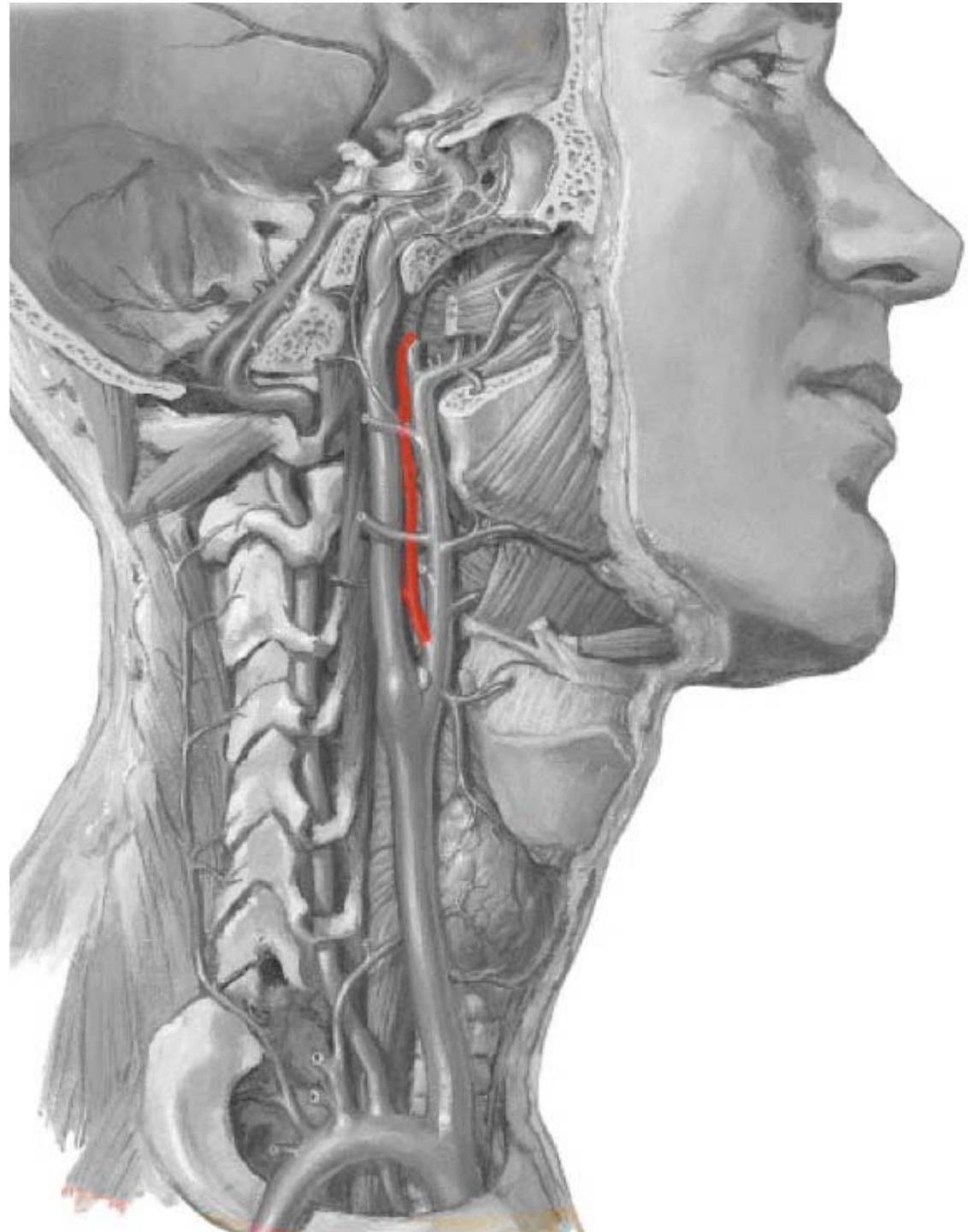
External carotid a.

Superior thyroid



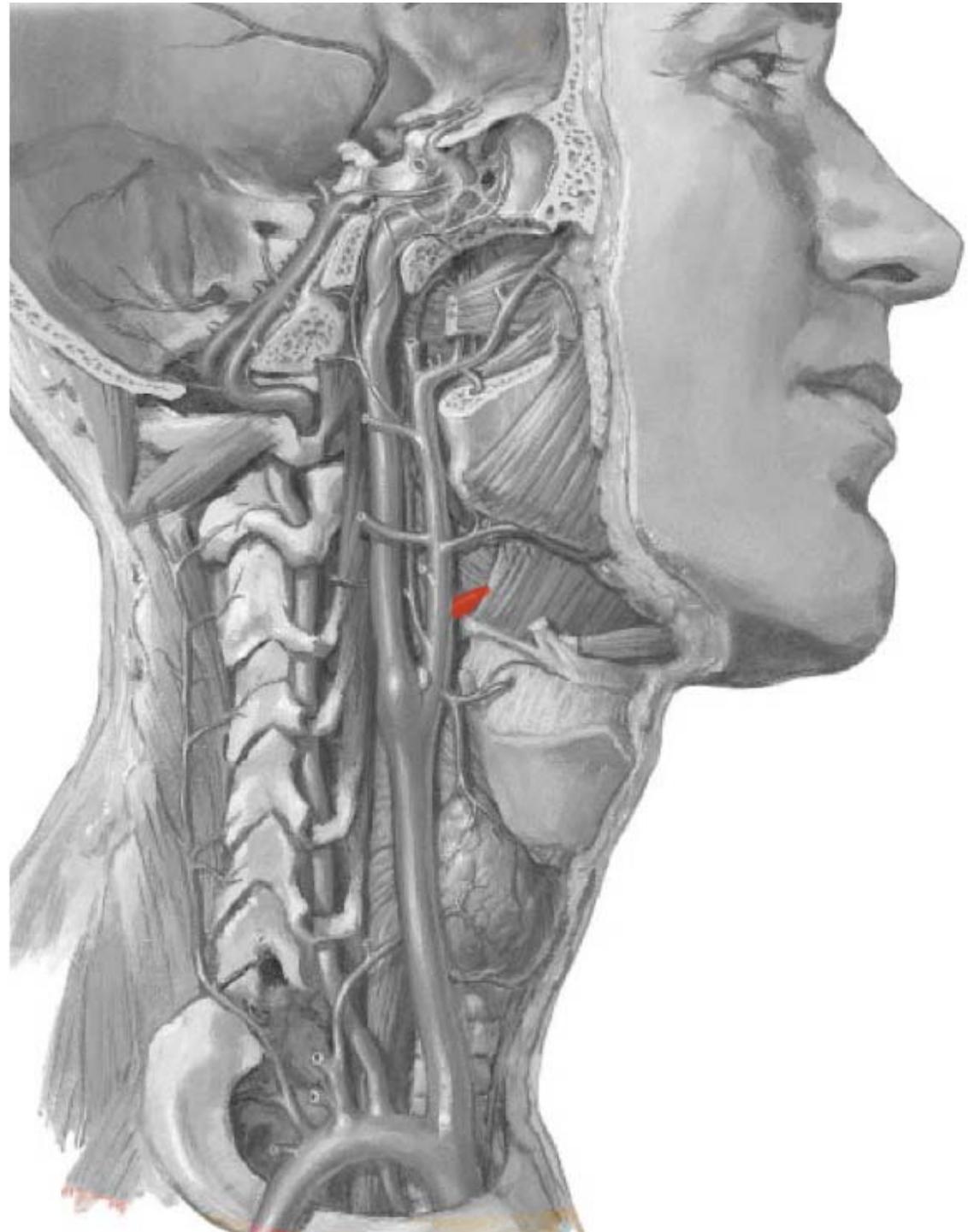
External carotid a.

Asc. pharyngeal



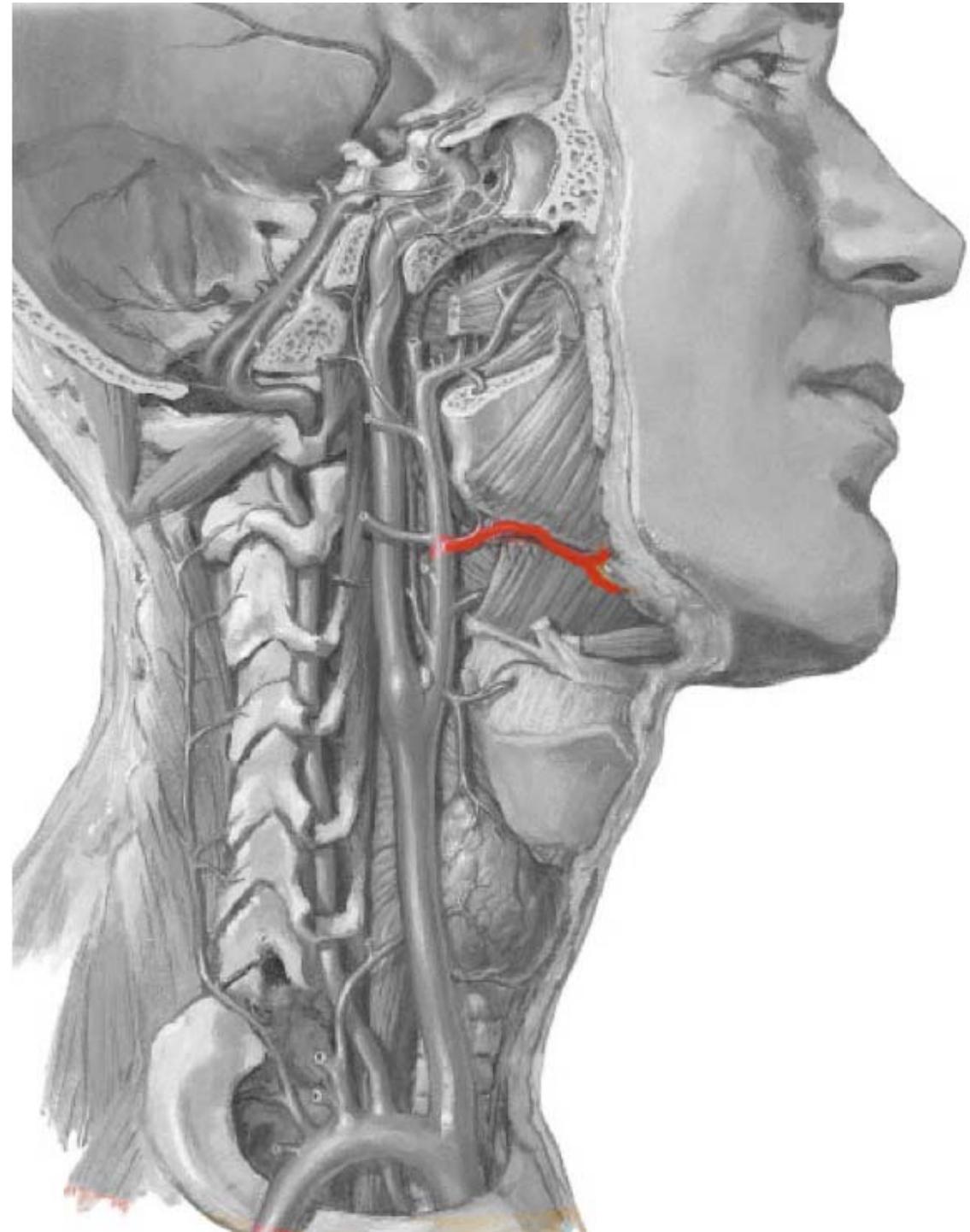
External carotid a.

Lingual



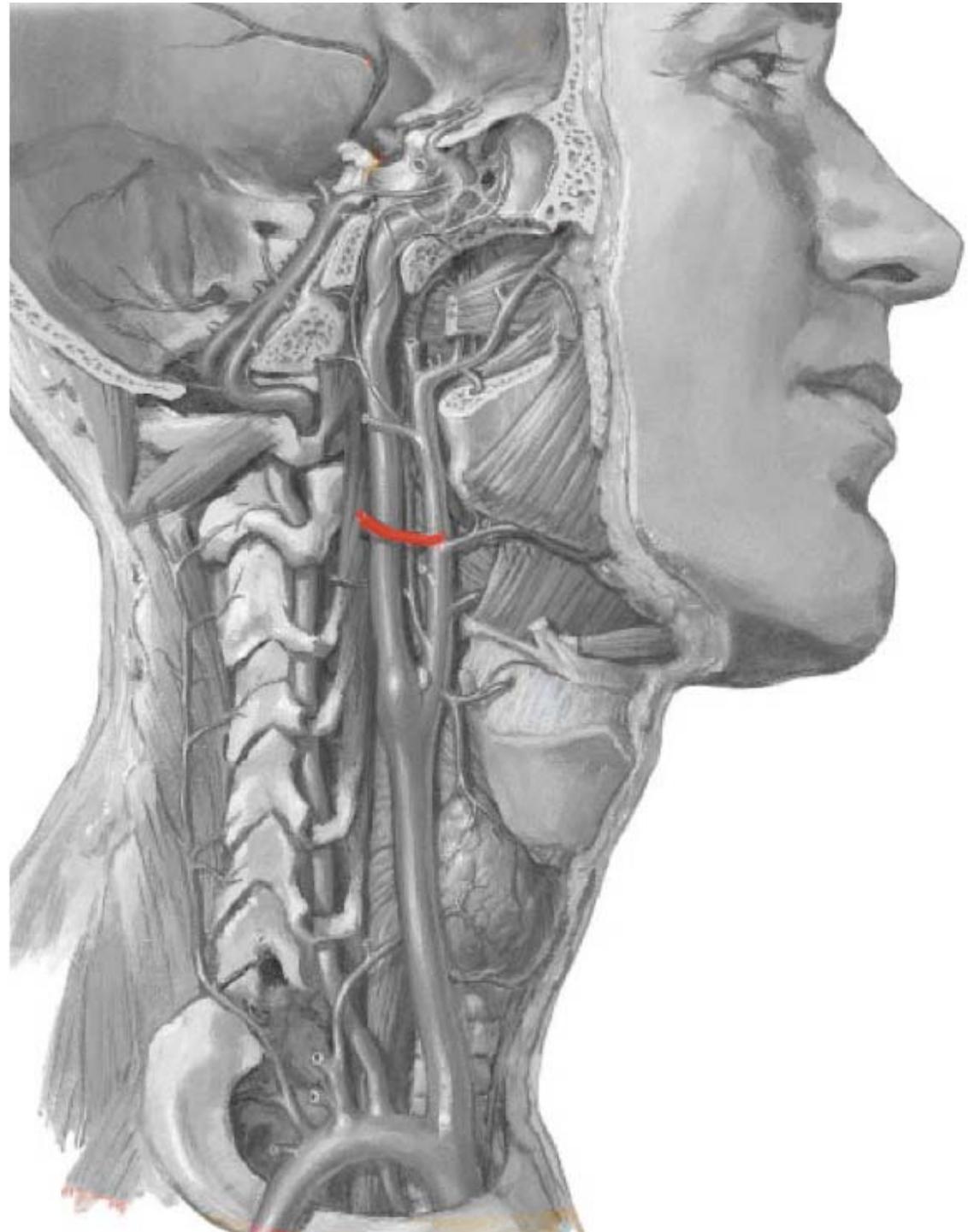
External carotid a.

Facial



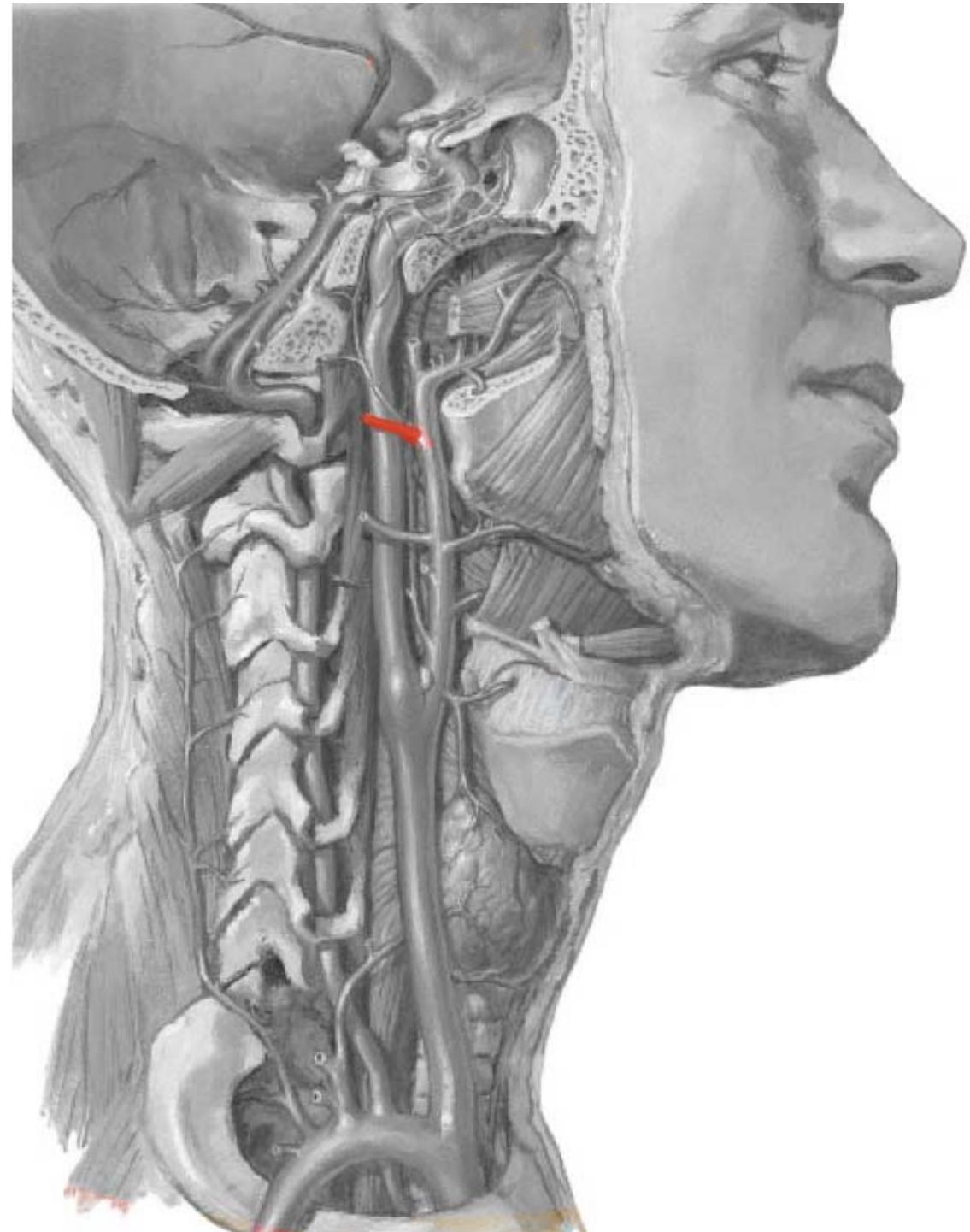
External carotid a.

Occipital



External carotid a.

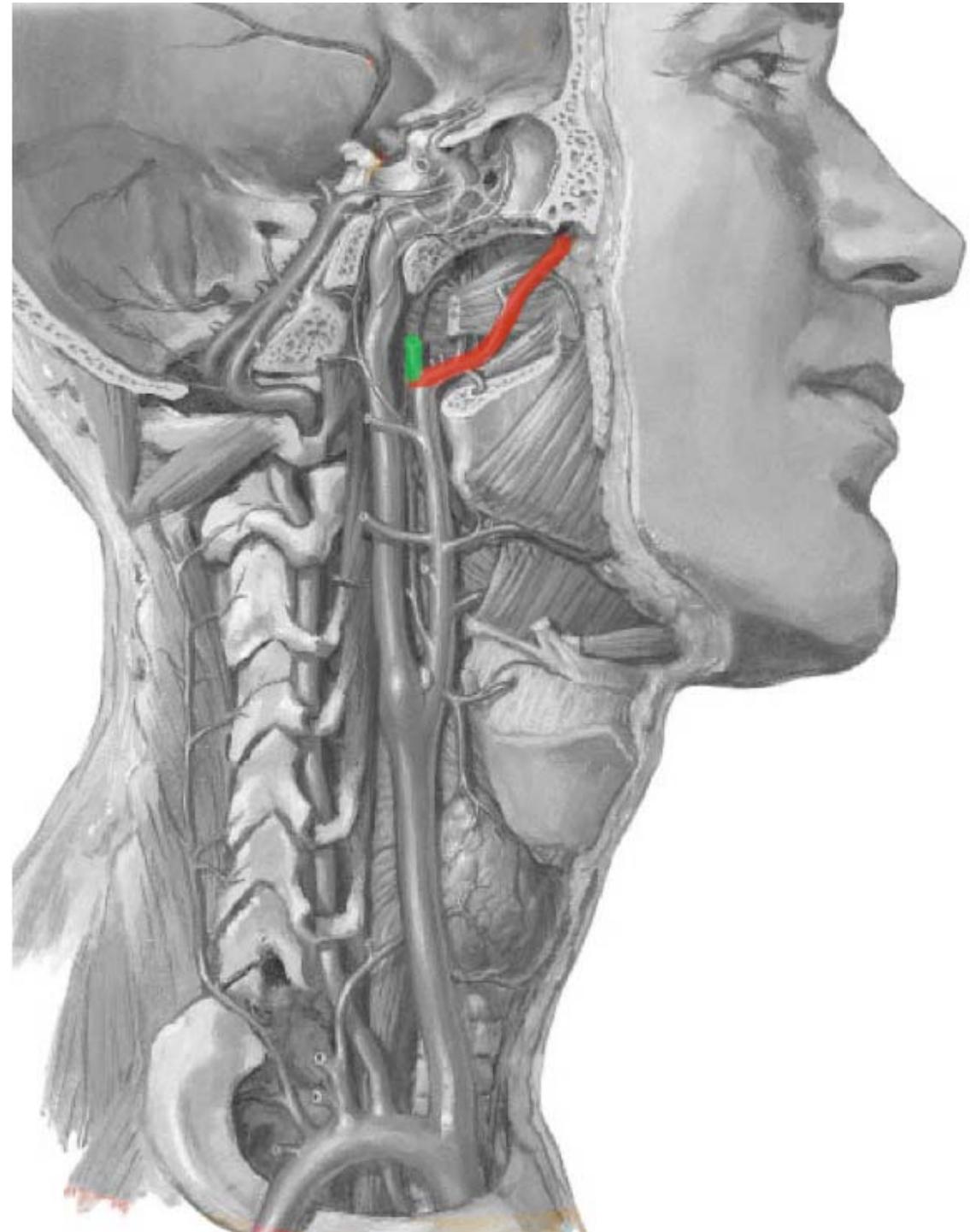
Post. auricular



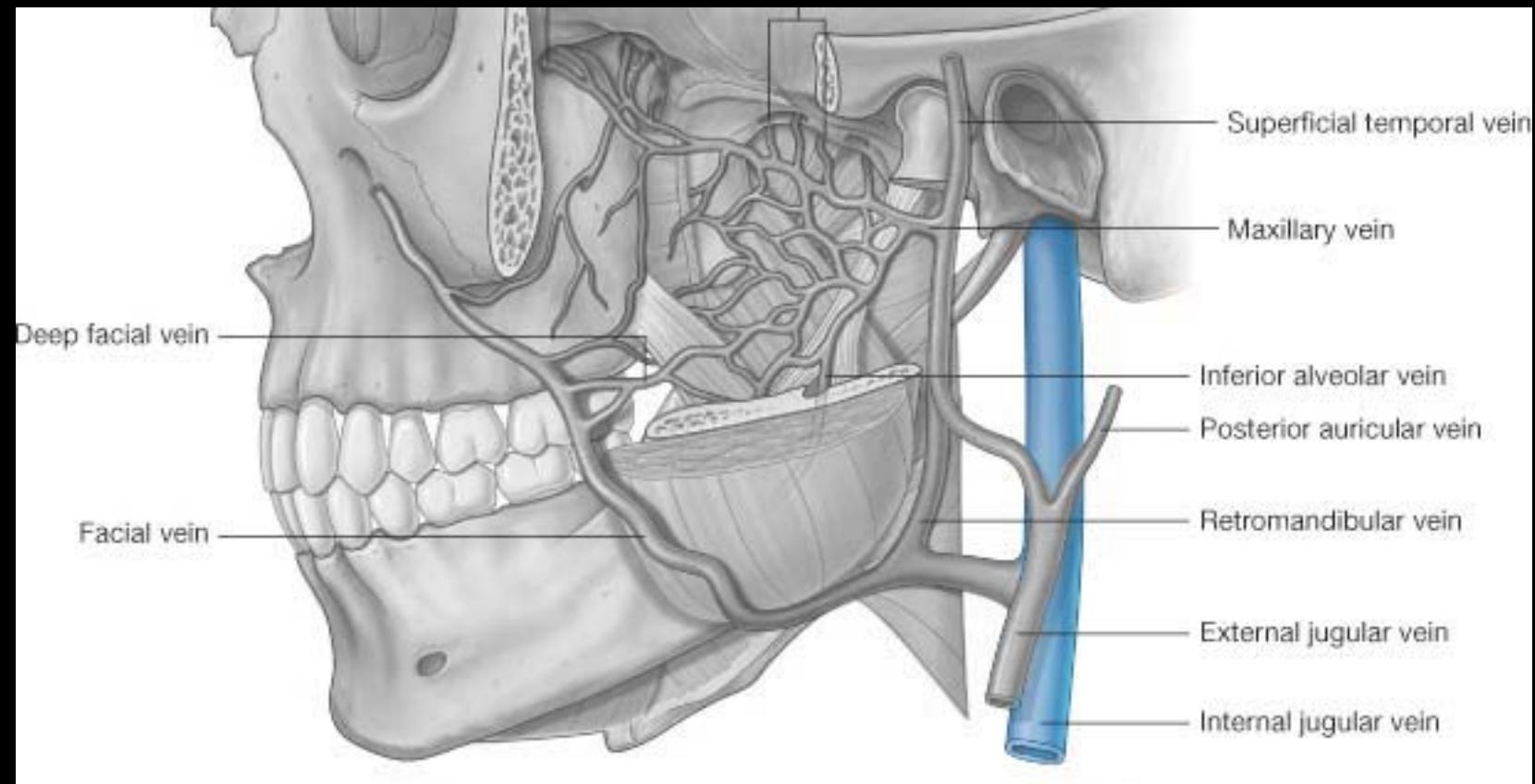
External carotid a.

Maxillary

Superfic temporal

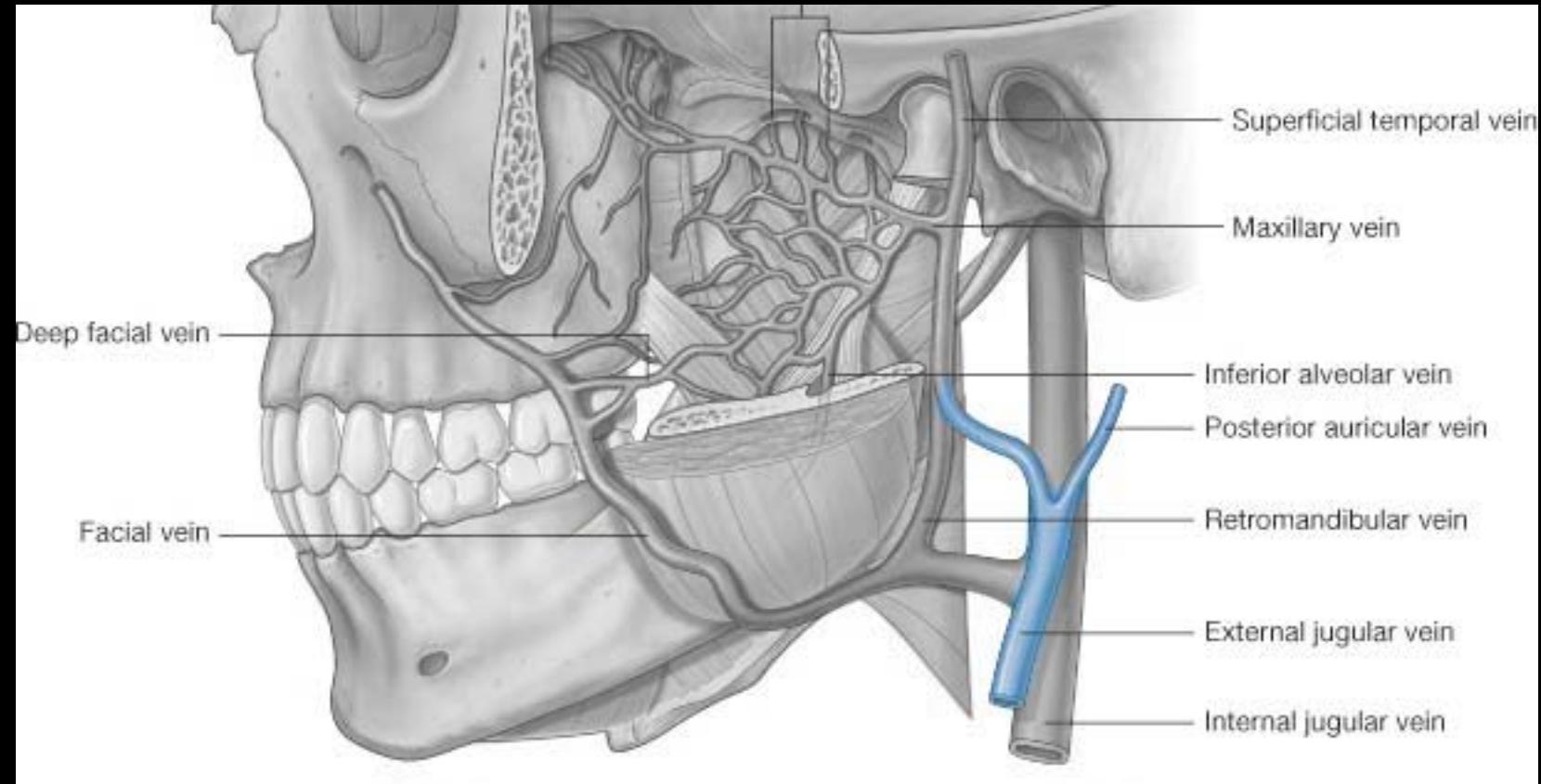


Internal jugular v.

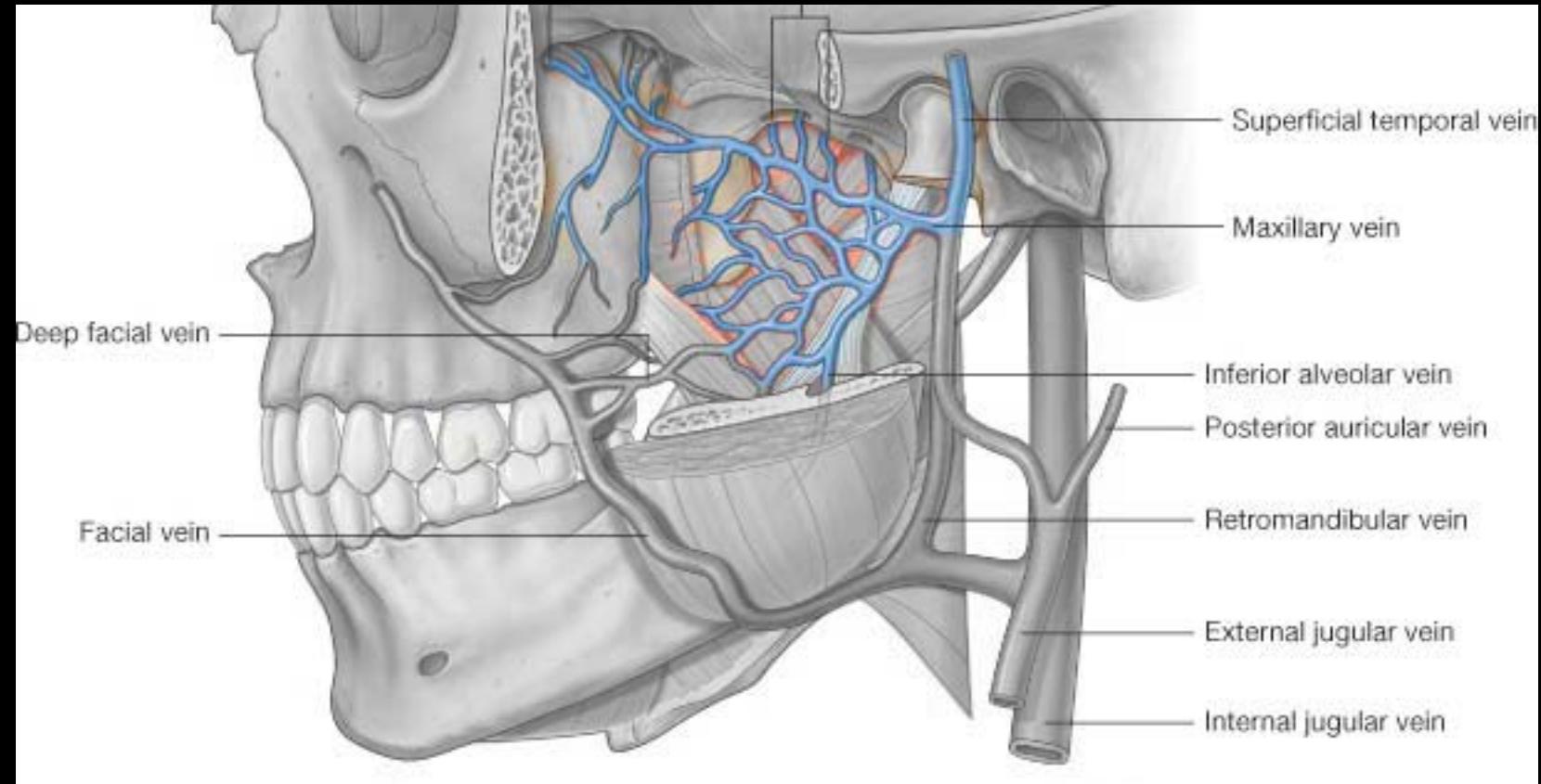


Pgs 7 & 8

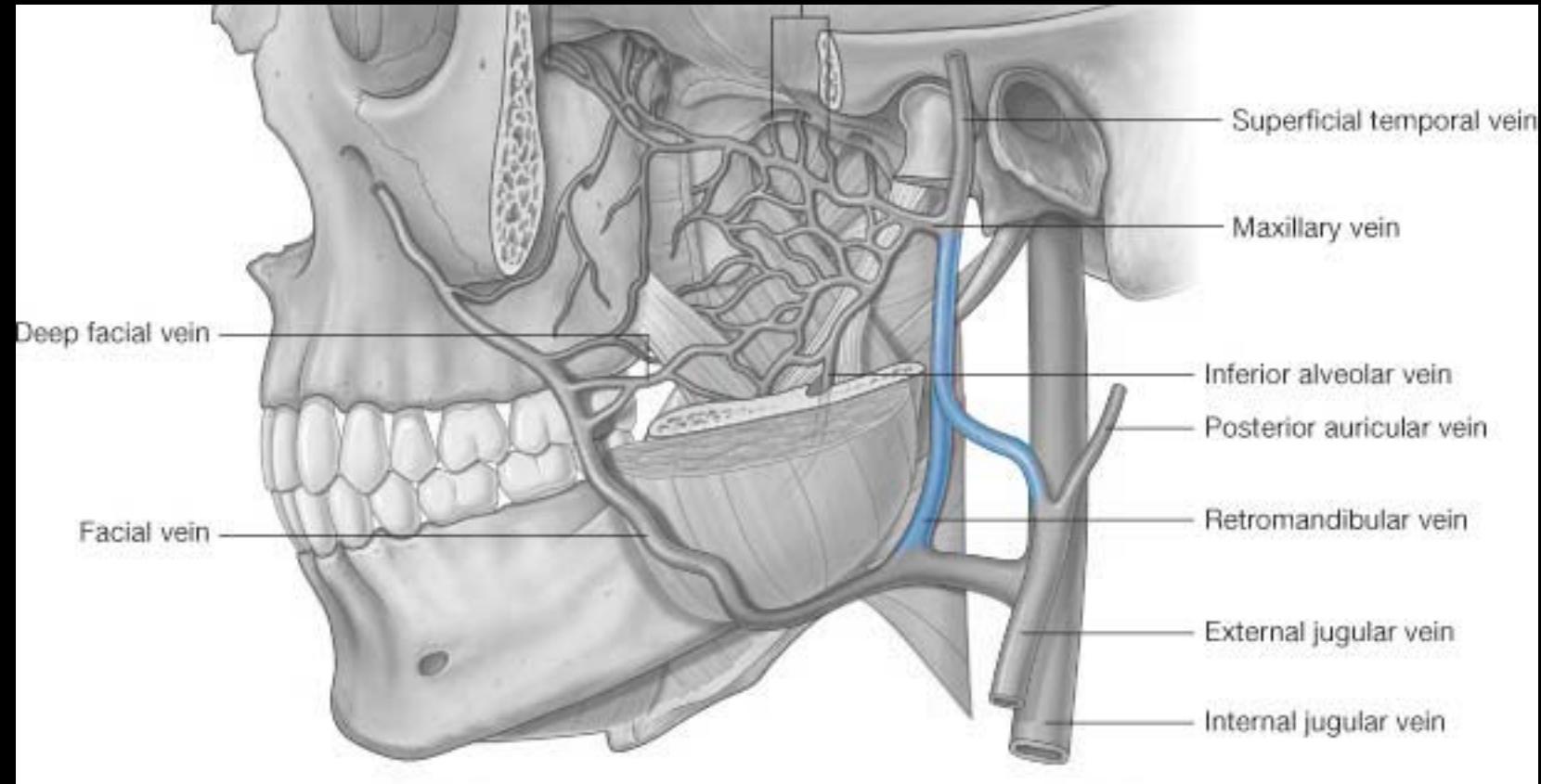
External jugular v.



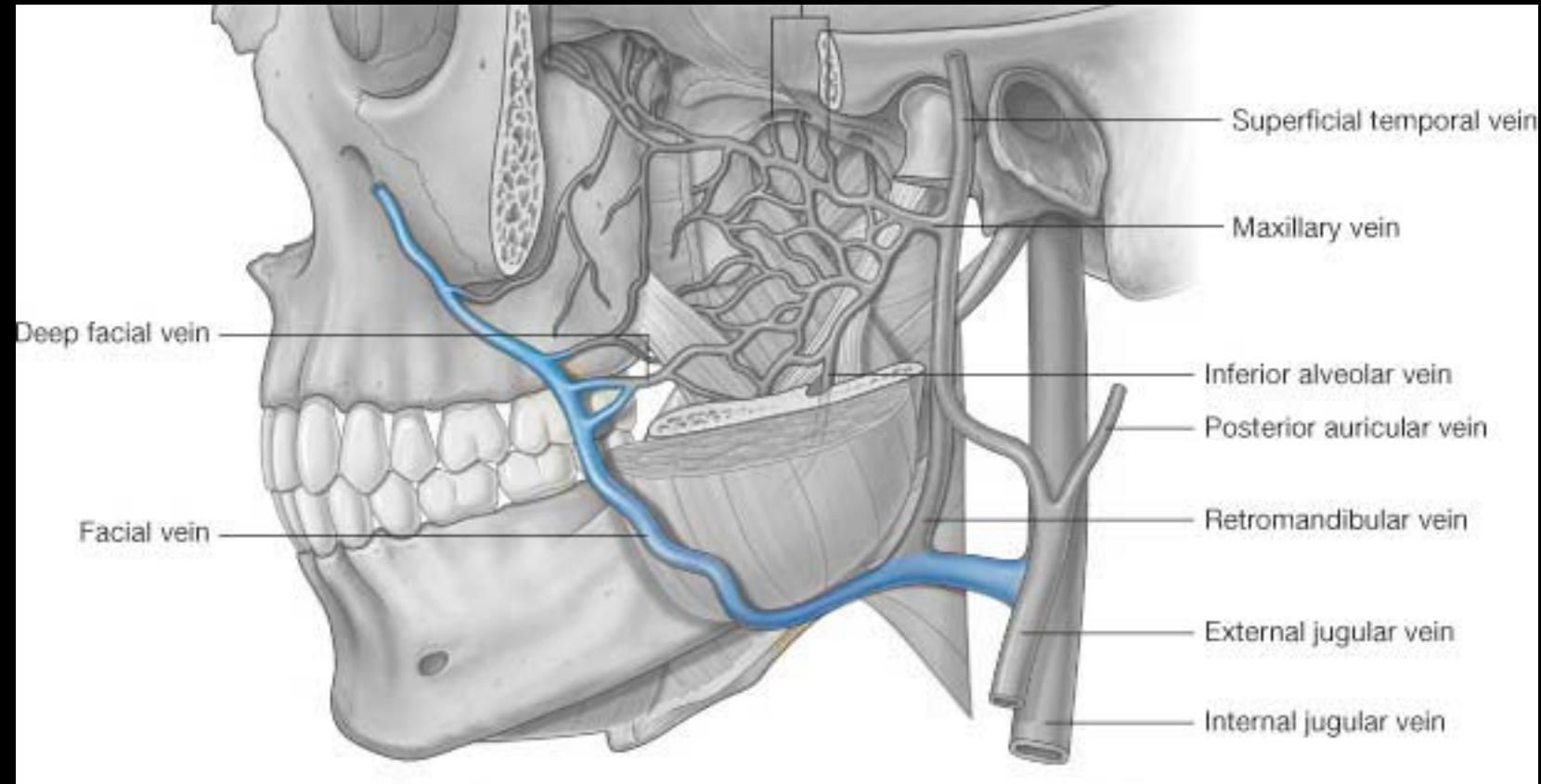
Retromandibular v.



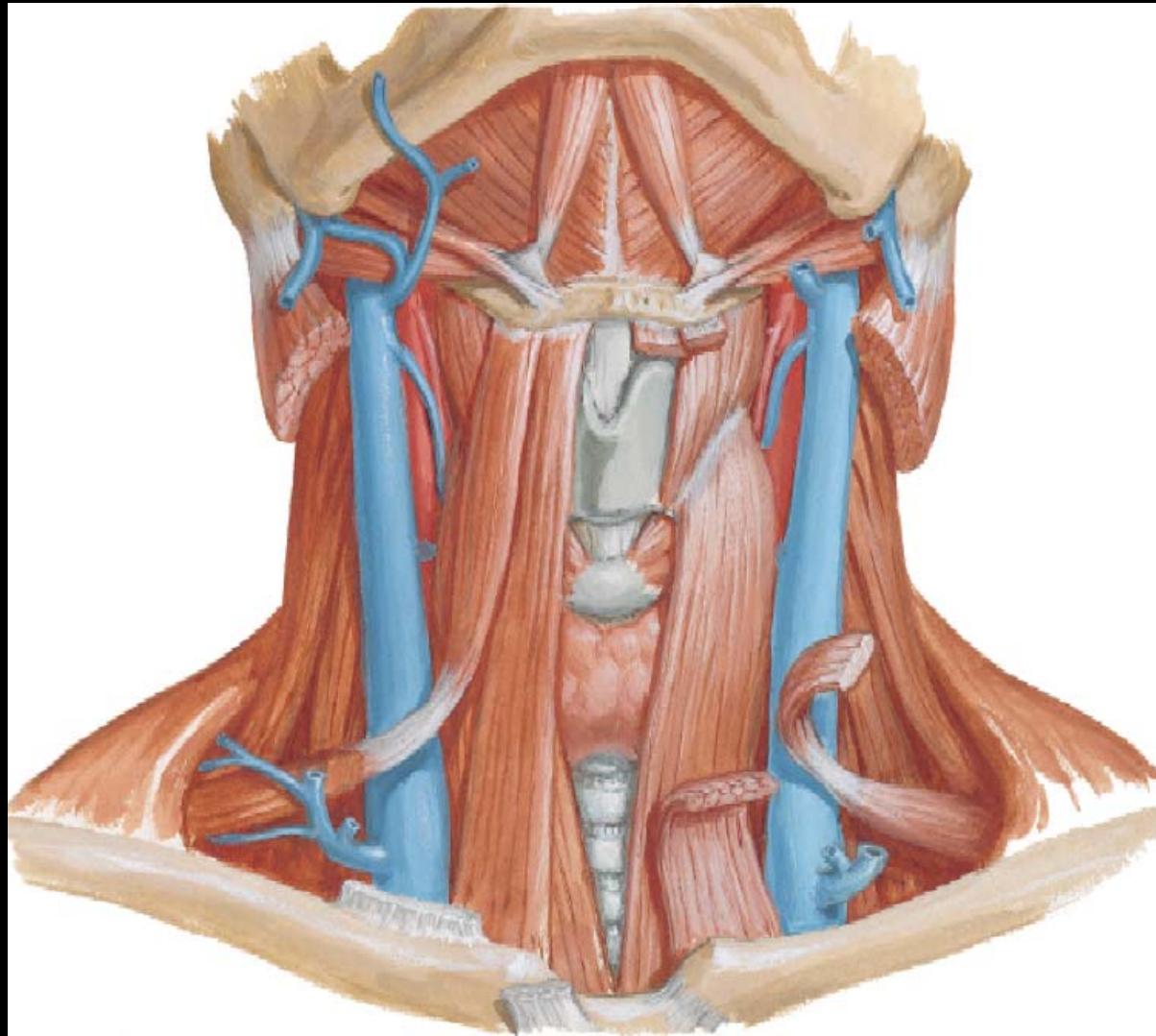
Retromandibular v.



Facial v.

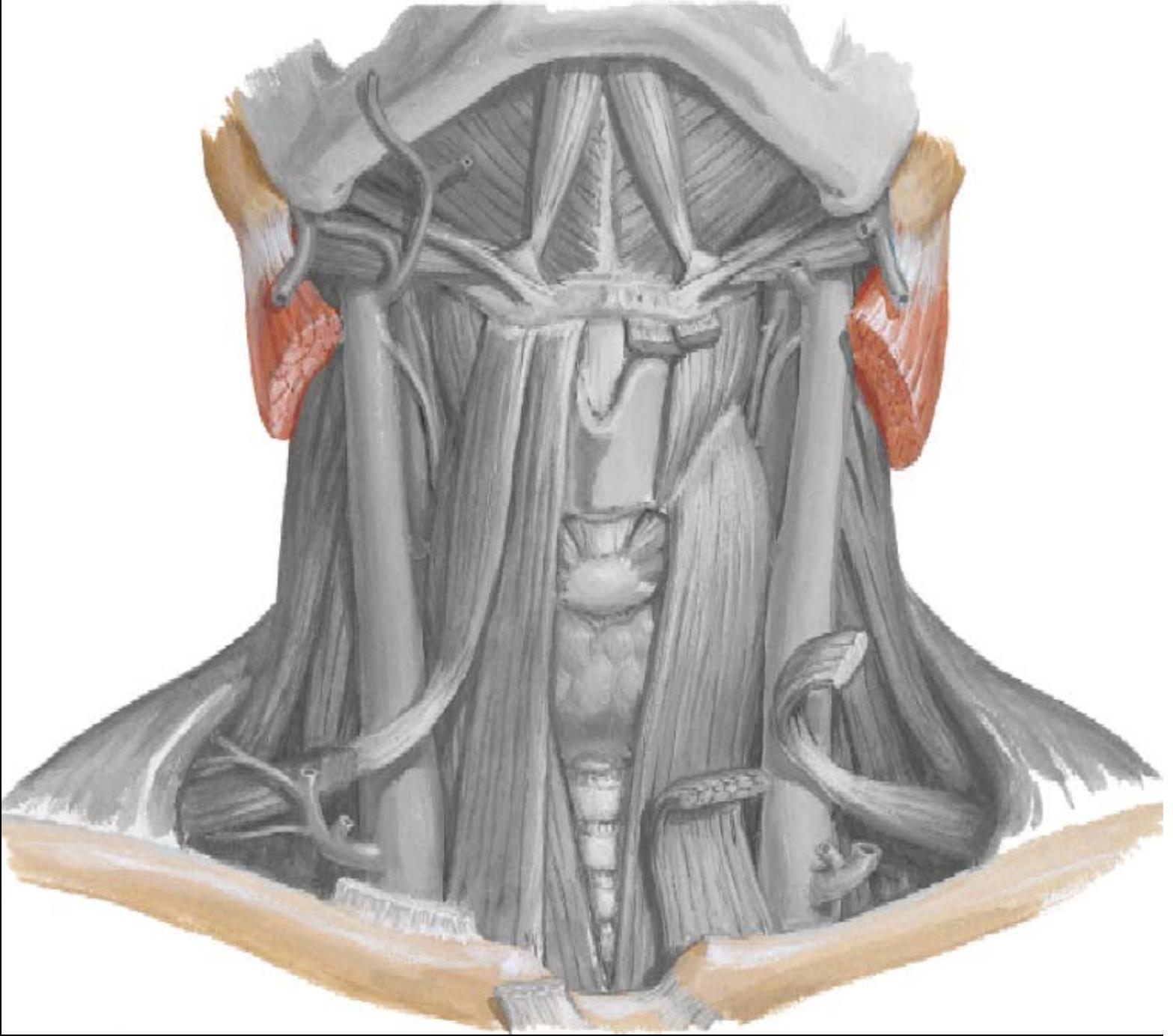


Neck muscles

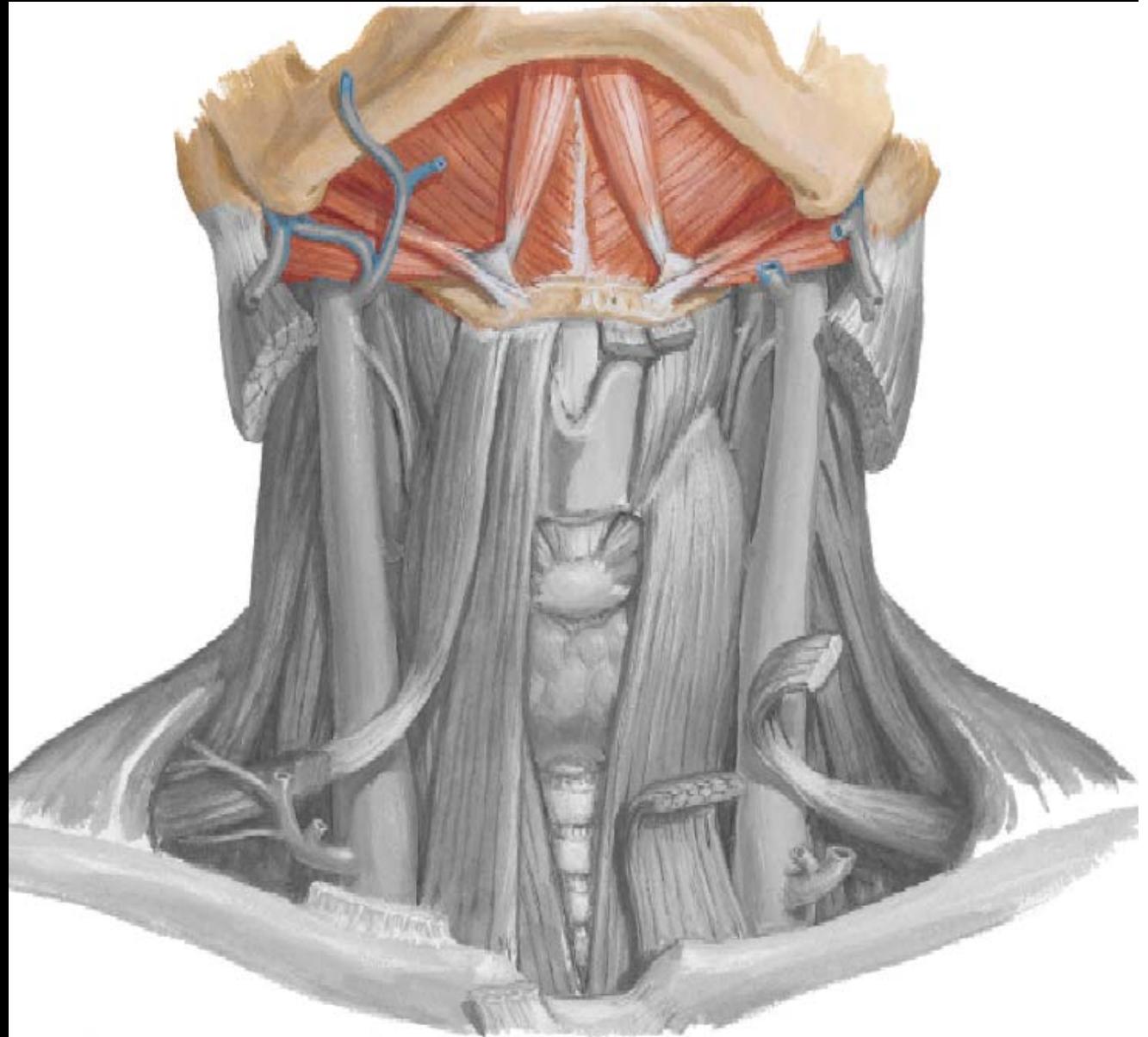


Pgs 9 & 10

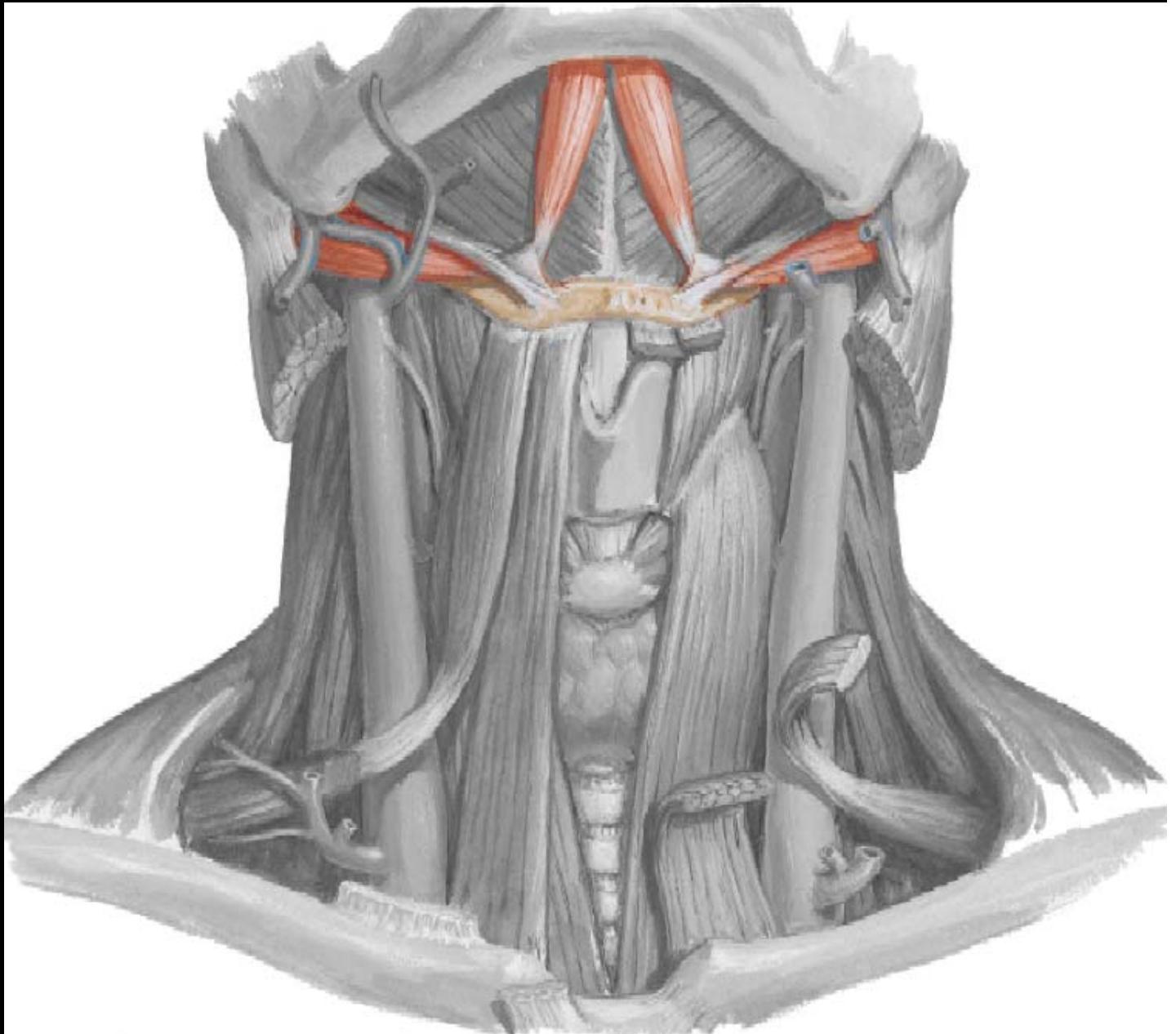
SCM m.



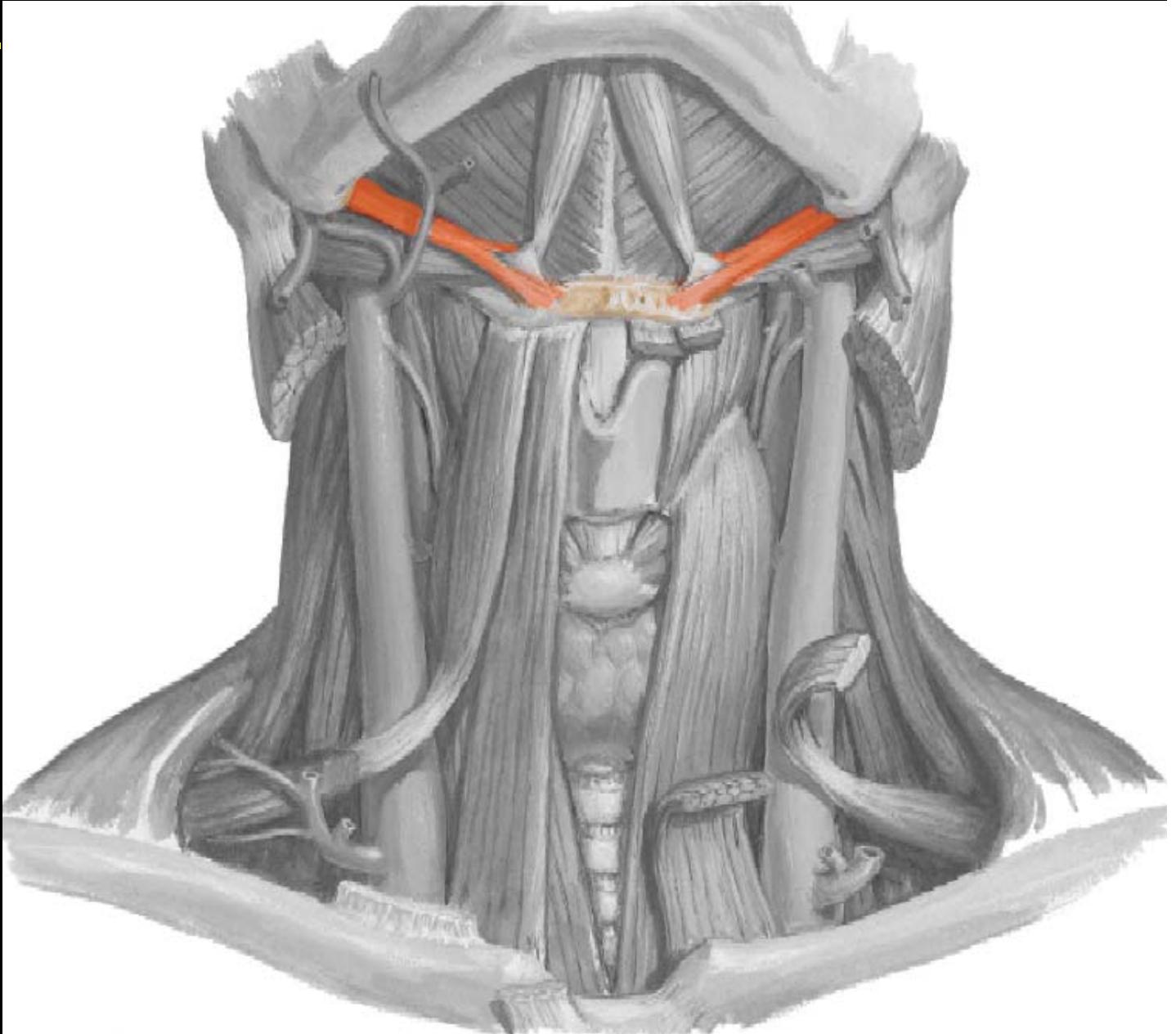
Suprahyoid mm.



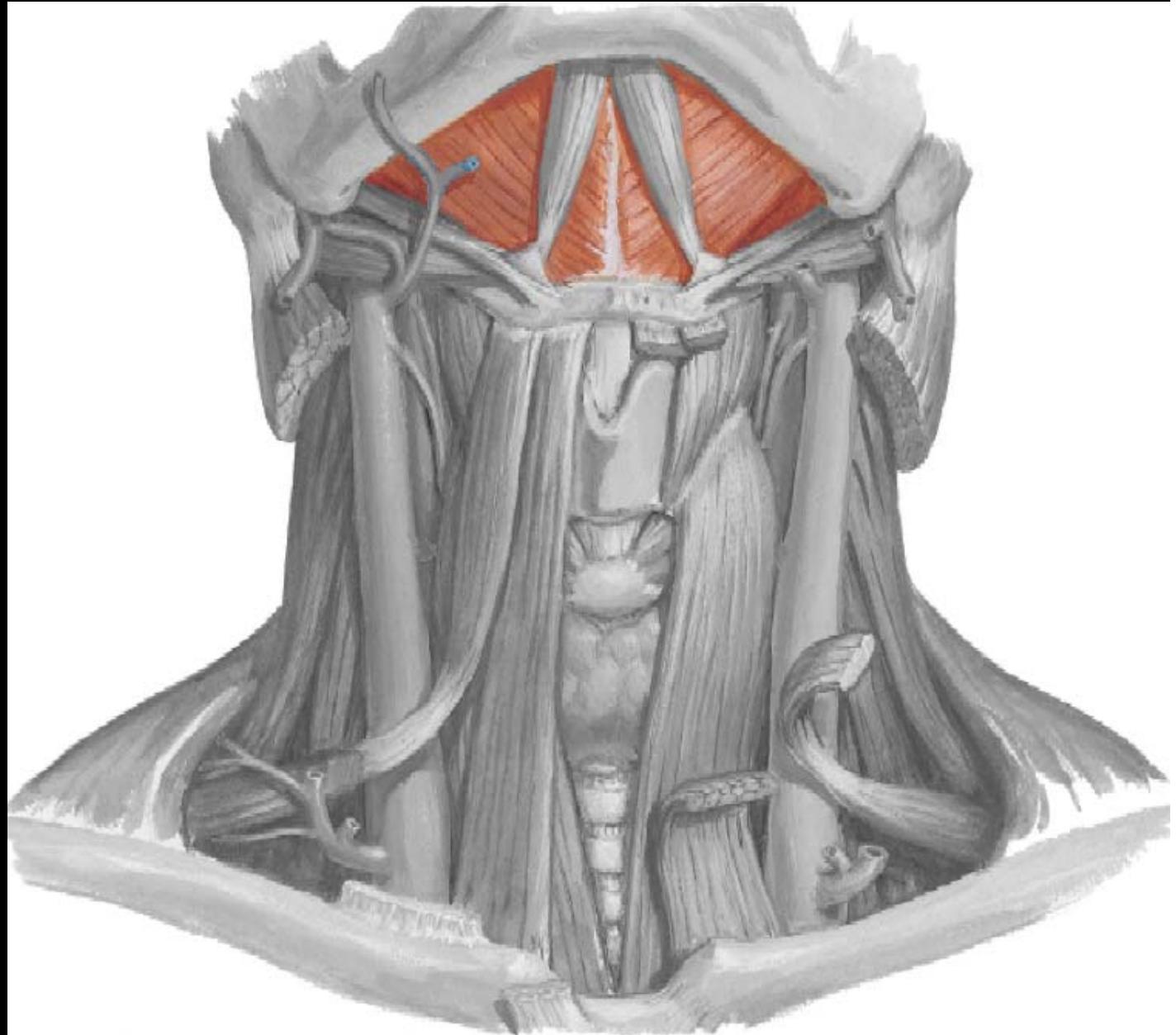
Digastric m.



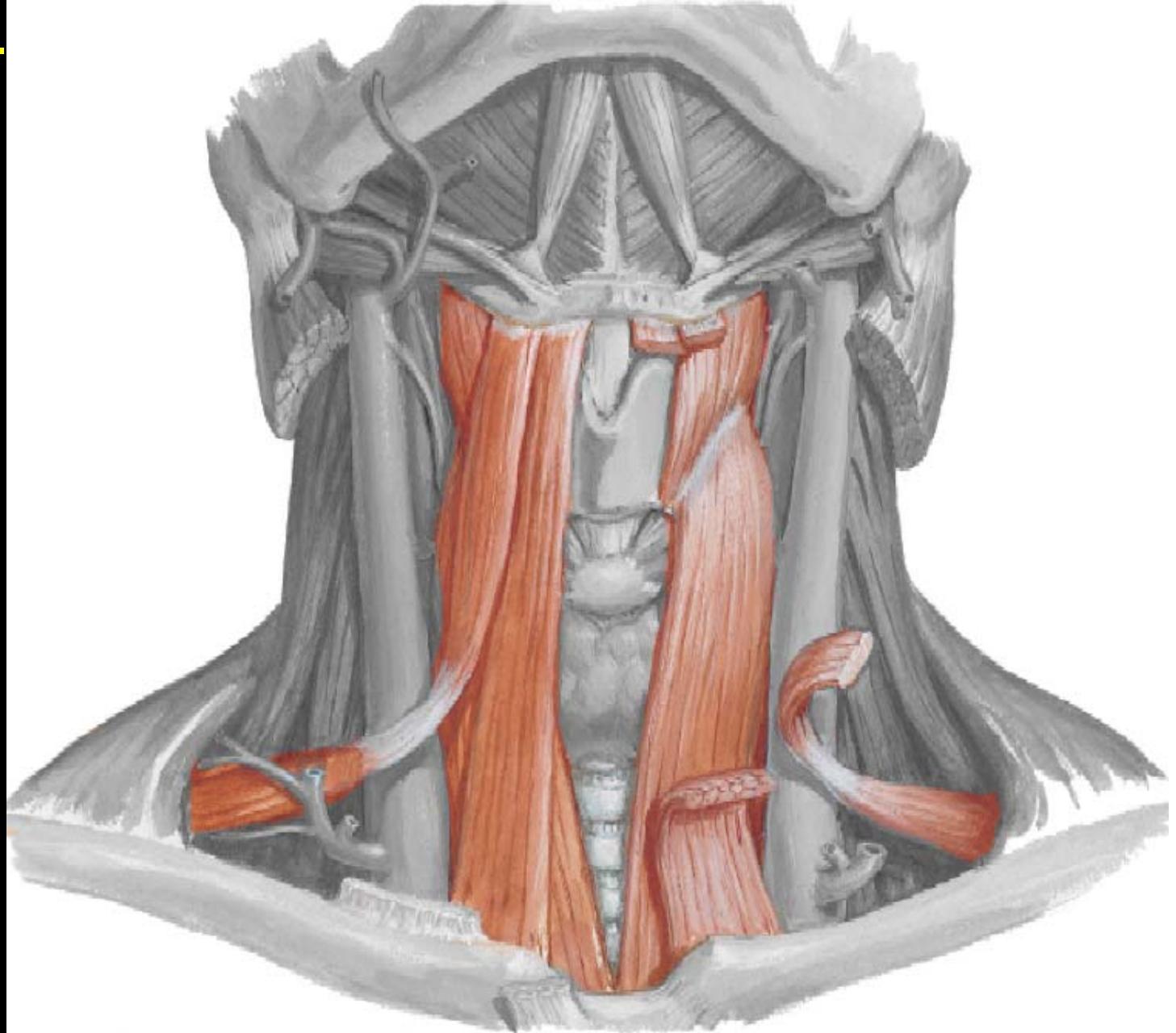
Stylohyoid m.



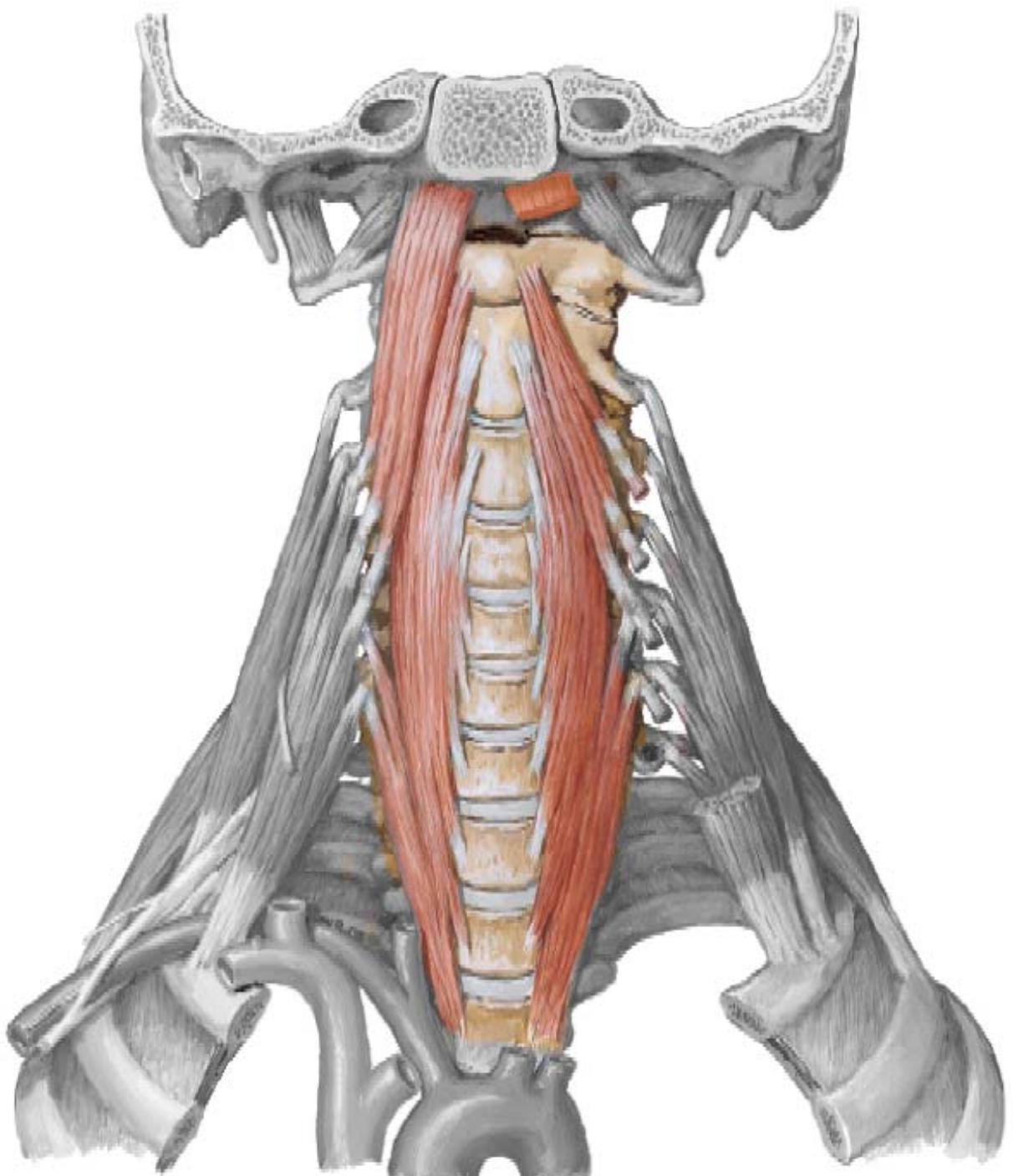
Mylohyoid m.



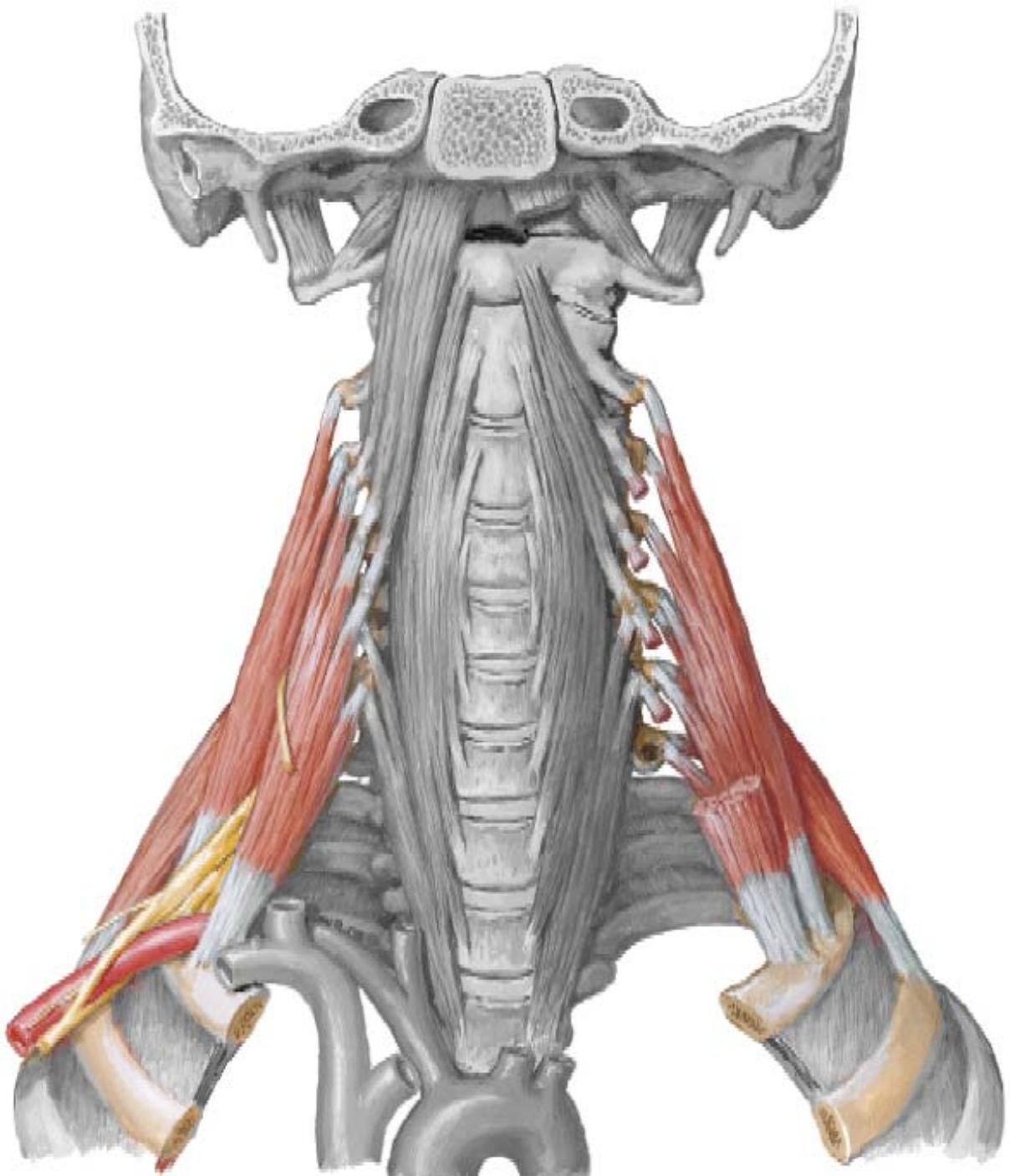
Infrathyoid m.



Longus colli/cap.



Scalenes



Trace a sensory neuron from the dorsal root to the C3 dermatome

C1, C2, C3, C4, C5

Spinal nerve

Dorsal root/ramus

Ventral root/ramus

Ansa cervicalis (sup/inf)

Carotid sheath

Deep investing fascia

Pretracheal fascia

Prevertebral fascia

Superficial fascia

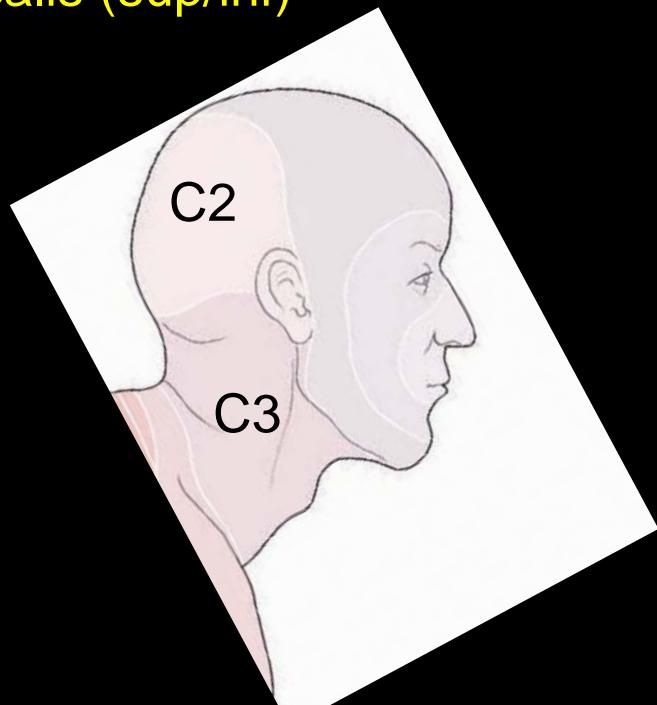
Anterior scalene muscle

Middle scalene muscle

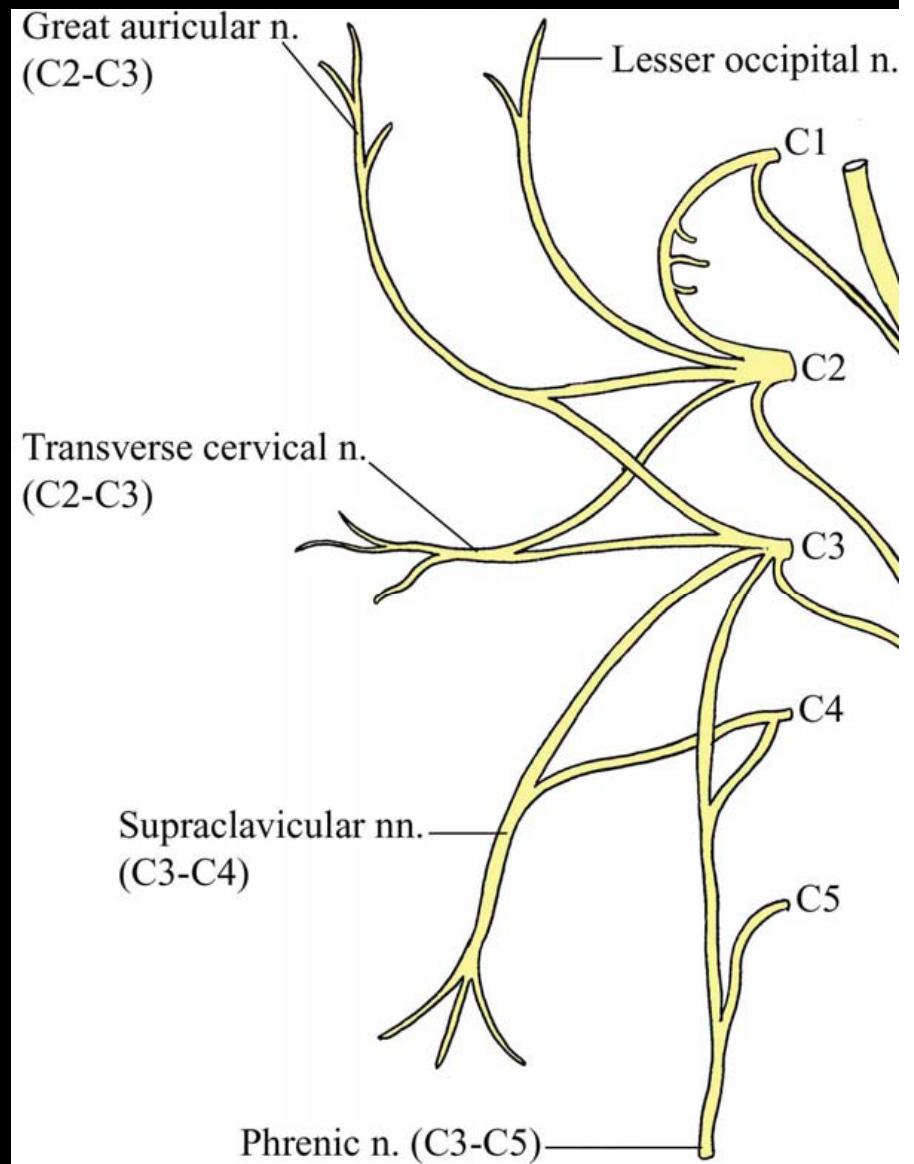
Posterior scalene muscle

Platysma m.

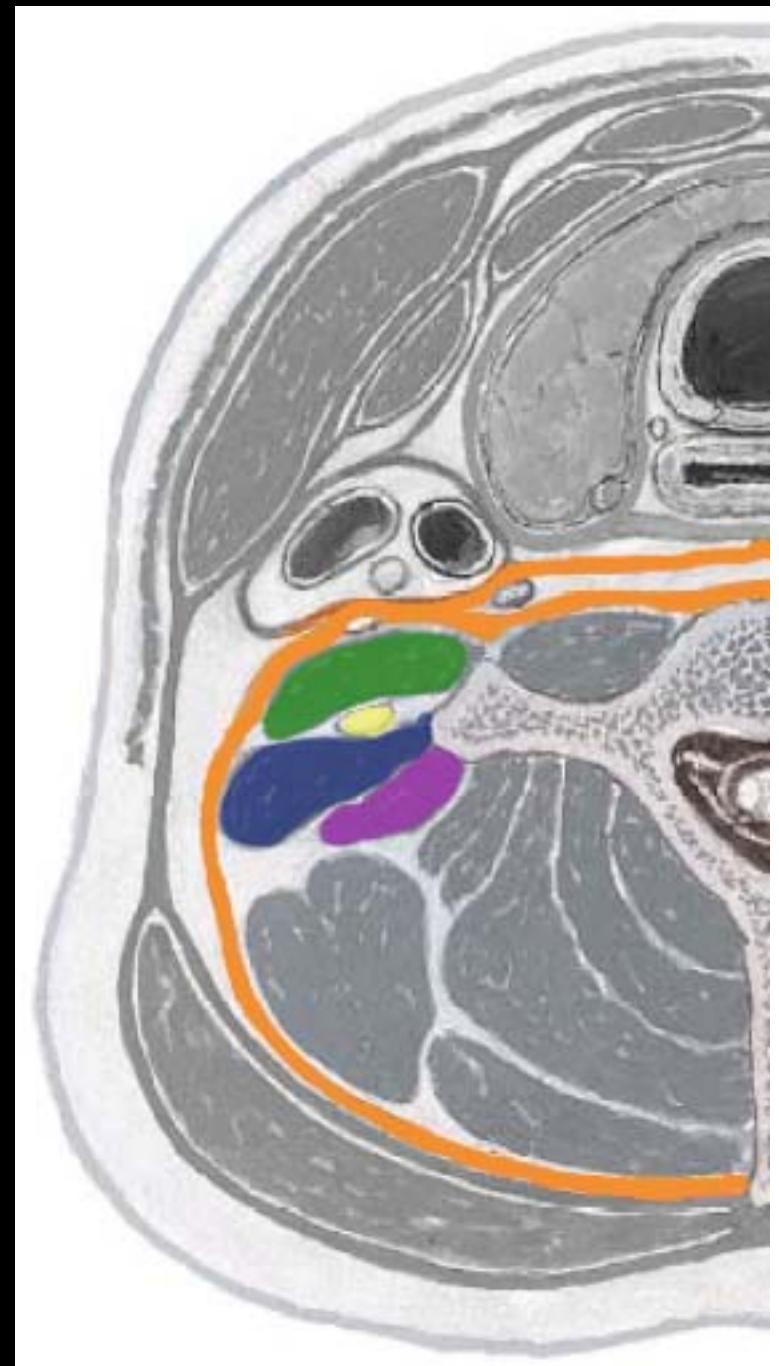
Sternocleidomastoid m.



- Dorsal root
- C3 spinal n.
- C3 ventral ramus
- Enters the gr auricular n. & trans cervical n. and supraclavicular n.
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Post SCM m.
- Pierces deep investing fascia
- Pierces platysma m. in superficial fascia
- Distributes to various regions of C3 dermatome



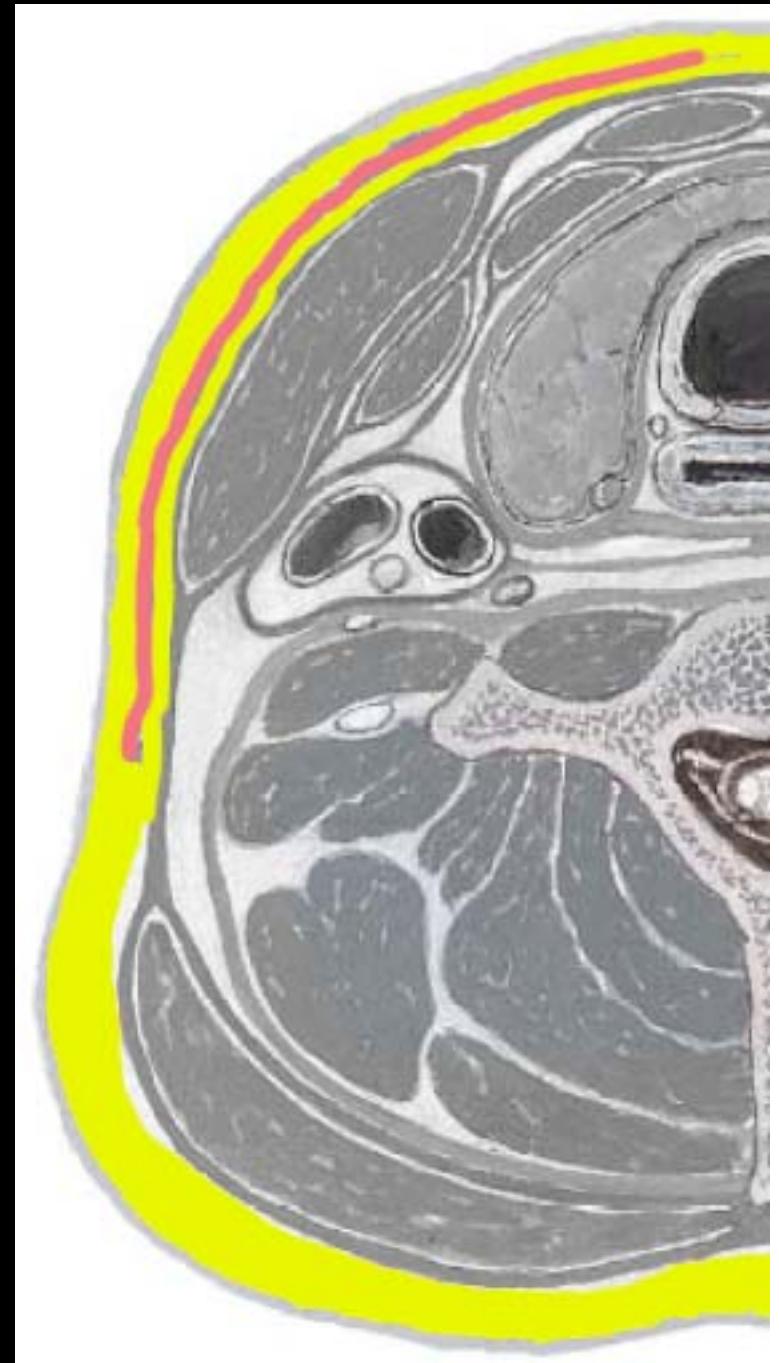
- Dorsal root
- C3 spinal n.
- C3 ventral ramus
- Enters the gr auricular n. & trans cervical n. and supraclavicular n.
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Post SCM m.
- Pierces deep investing fascia
- Pierces platysma m. in superficial fascia
- Distributes to various regions of C3 dermatome



- Dorsal root
- C3 spinal n.
- C3 ventral ramus
- Enters the gr auricular n. & trans cervical n. and supraclavicular n.
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Post SCM m.
- Pierces deep investing fascia
- Pierces platysma m. in superficial fascia
- Distributes to various regions of C3 dermatome



- Dorsal root
- C3 spinal n.
- C3 ventral ramus
- Enters the gr auricular n. & trans cervical n. and supraclavicular n.
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Post SCM m.
- Pierces deep investing fascia
- Pierces platysma m. in superficial fascia
- Distributes to various regions of C3 dermatome



- Dorsal root
- C3 spinal n.
- C3 ventral ramus
- Enters the gr auricular n. & trans cervical n. and supraclavicular n.
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Post SCM m.
- Pierces deep investing fascia
- Pierces platysma m. in superficial fascia
- Distributes to various regions of C3 dermatome



Trace a C3 motor neuron to the sternothyroid muscle

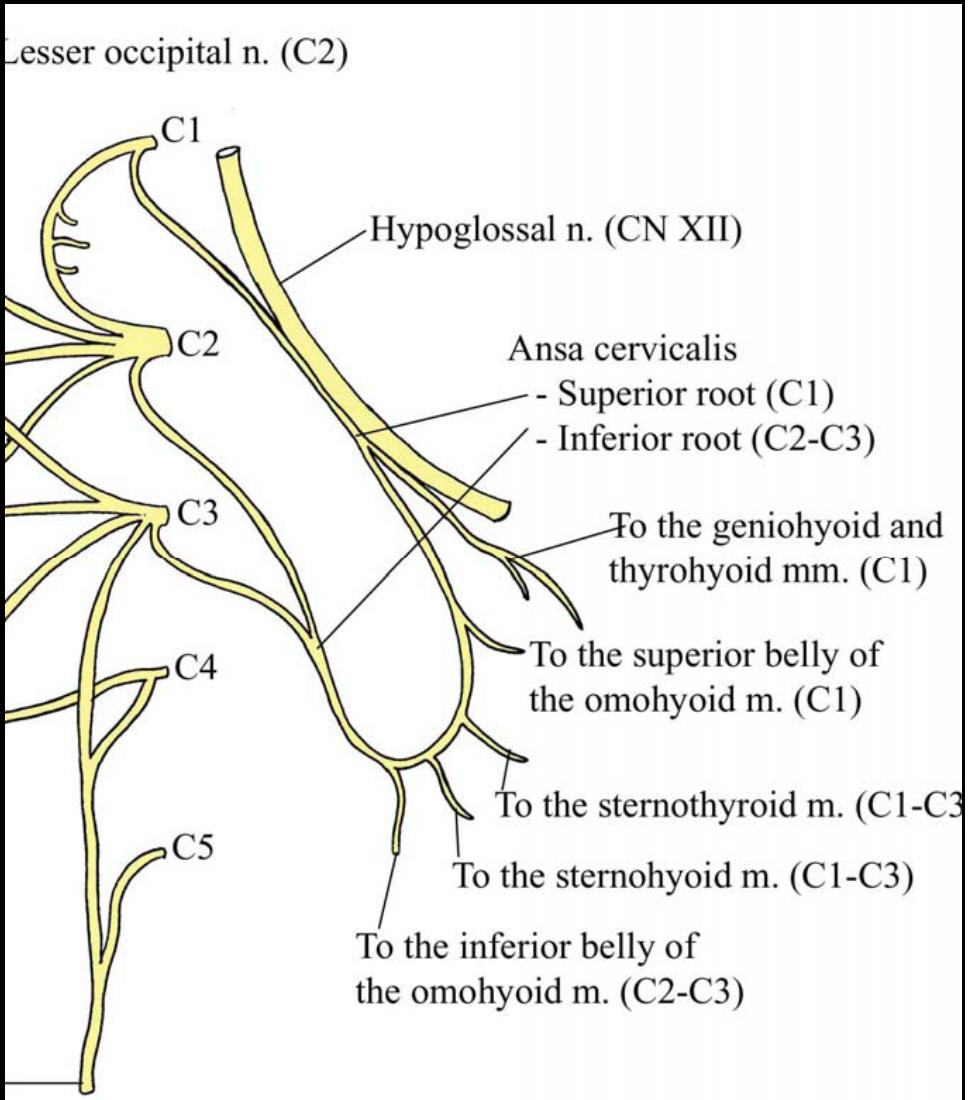
C1, C2, C3, C4, C5
Spinal nerve
Dorsal root/ramus
Ventral root/ramus
Ansa cervicalis (sup/inf)

Carotid sheath
Deep investing fascia
Pretracheal fascia
Prevertebral fascia
Superficial fascia

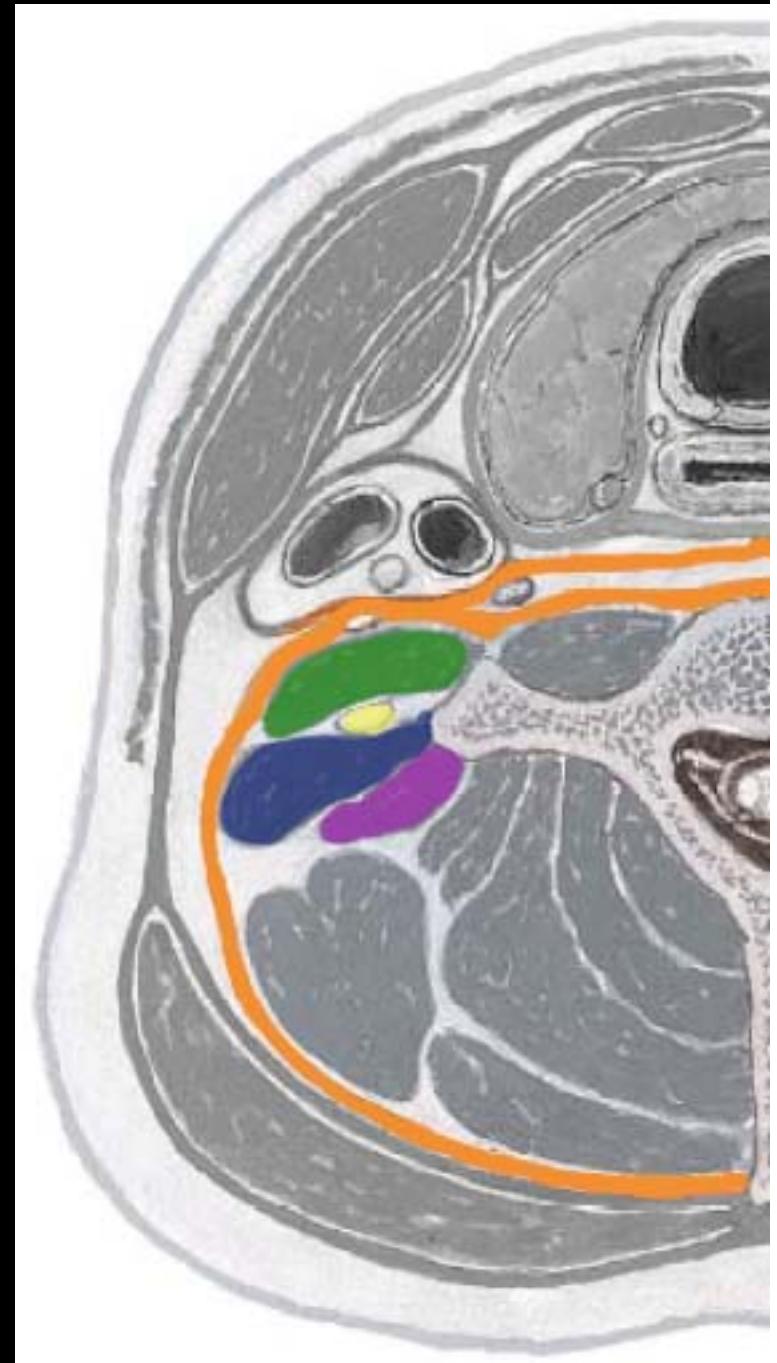
Anterior scalene muscle
Middle scalene muscle
Posterior scalene muscle

Platysma m.
Sternocleidomastoid m.

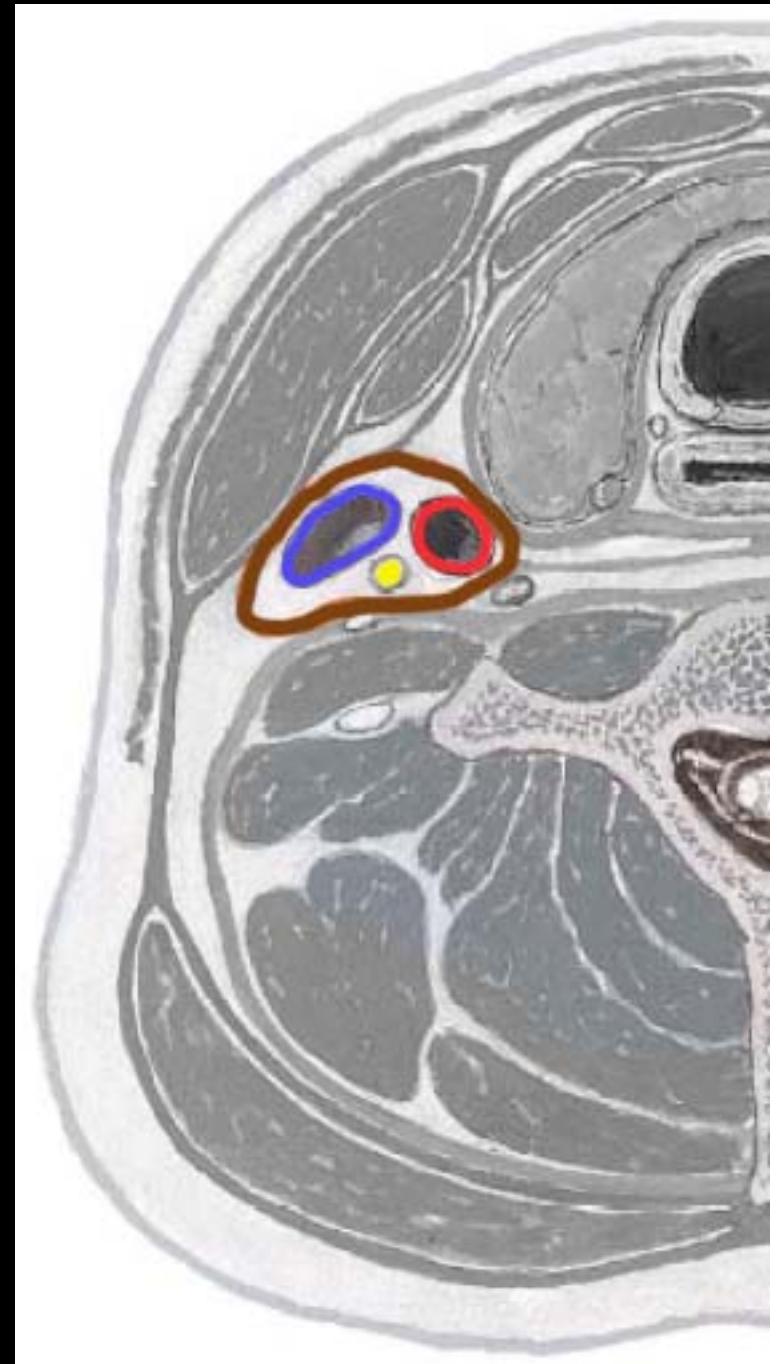
- Ventral root
- C3 spinal n.
- C3 ventral ramus
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Enter carotid sheath plane
- Ans cervicalis (inf limb)
- Pierces Pretracheal fascia of sternothyroid m.
- Innervates sternothyroid m.



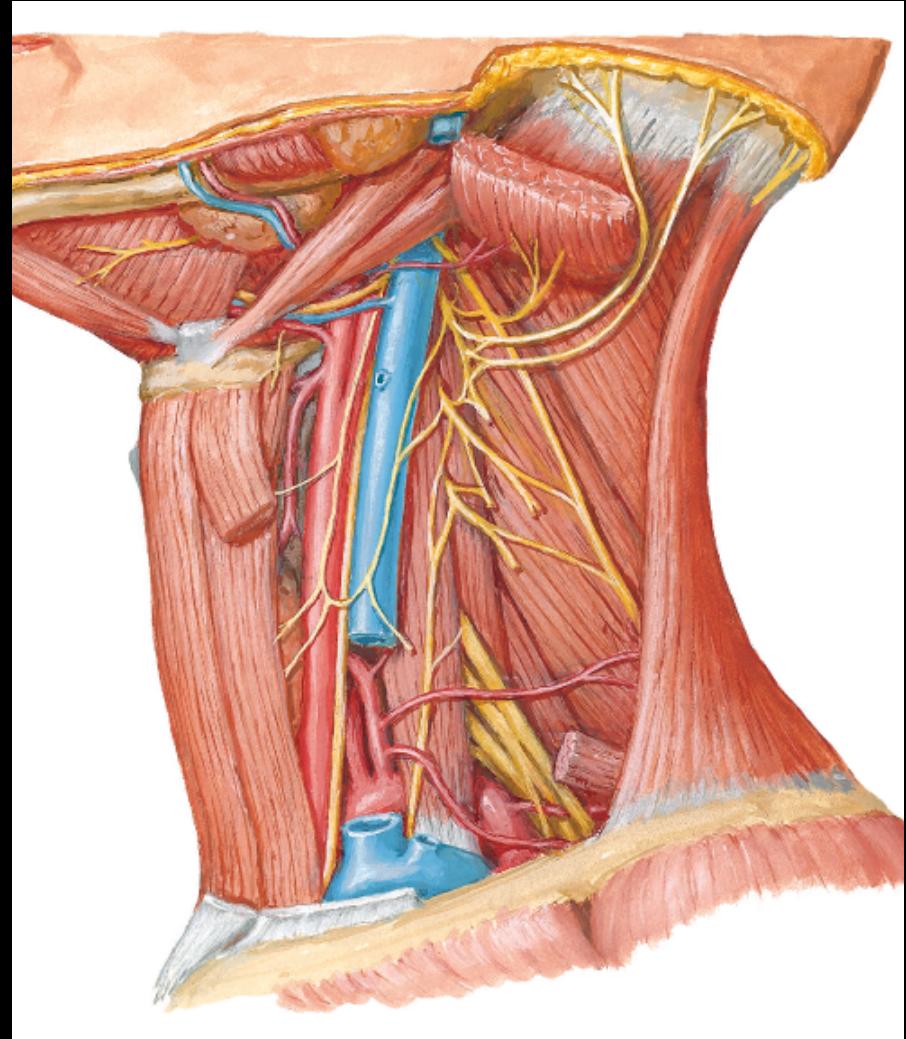
- Ventral root
- C3 spinal n.
- C3 ventral ramus
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Enter carotid sheath plane
- Ans cervicalis (inf limb)
- Pierces Pretracheal fascia of sternothyroid m.
- Innervates sternothyroid m.



- Ventral root
- C3 spinal n.
- C3 ventral ramus
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Enter carotid sheath plane
- Ans cervicalis (inf limb)
- Pierces Pretracheal fascia of sternothyroid m.
- Innervates sternothyroid m.



- Ventral root
- C3 spinal n.
- C3 ventral ramus
- Exits between Ant and Mid Scalene m.
- Pierces prevertebral fascia
- Enter carotid sheath plane
- Ans cervicalis (inf limb)
- Pierces Pretracheal fascia of sternothyroid m.
- Innervates sternothyroid m.



THANK-YOU