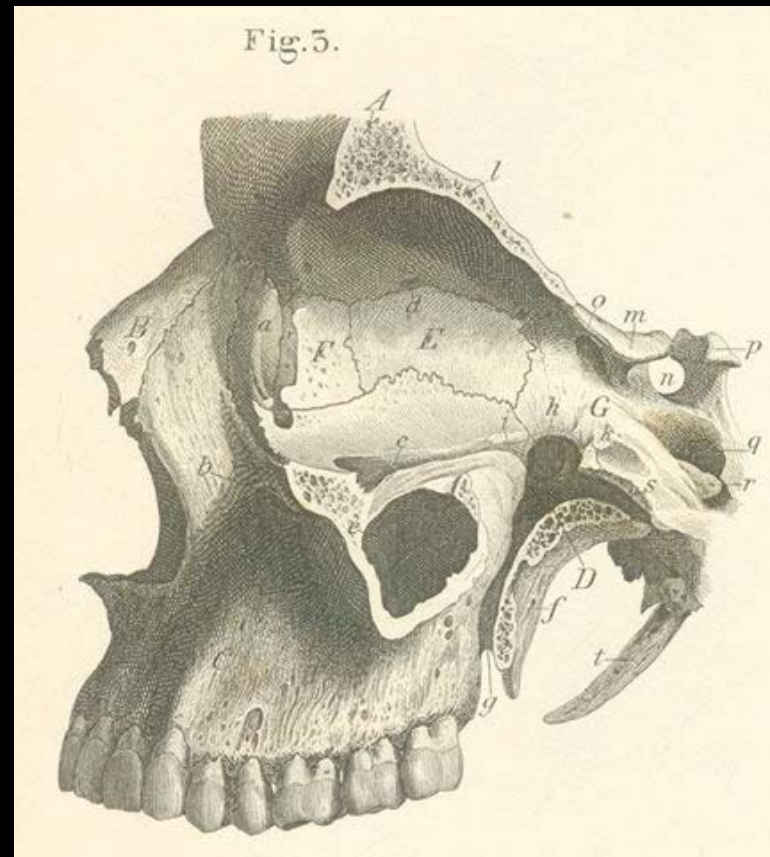


# G20B: Pterygopalatine Fossa and Nasal Cavity



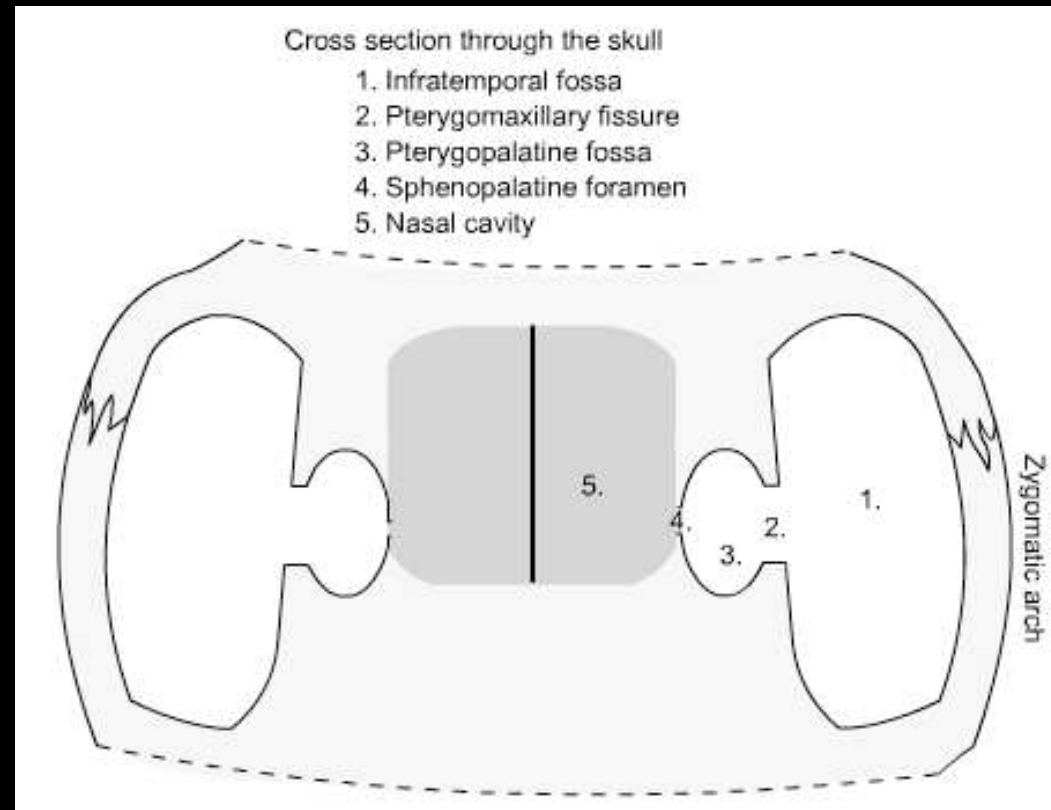
*Syllabus - Pg. 59*

# Objectives

- Pterygopalatine fossa:
  - boundaries
  - vasculature
  - innervation
  - pterygopalatine ganglion
- Nasal cavity

# 1) Pterygopalatine Fossa

## Boundaries



# 1) Pterygopalatine Fossa

## Contents

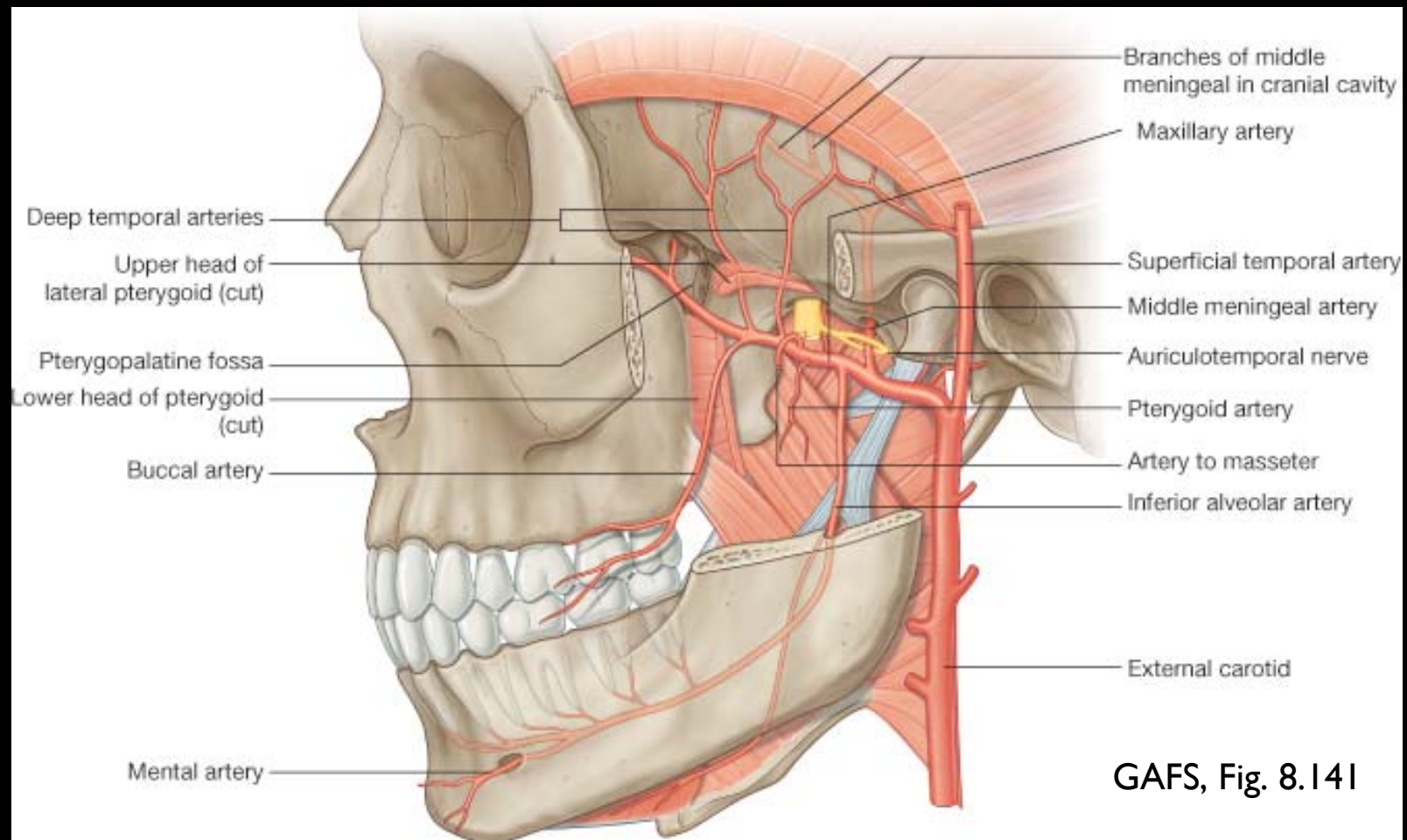
Maxillary artery (3rd part)

Maxillary nerve (CN V-2)

Pterygopalatine ganglion

## 2) Pterygopalatine Fossa

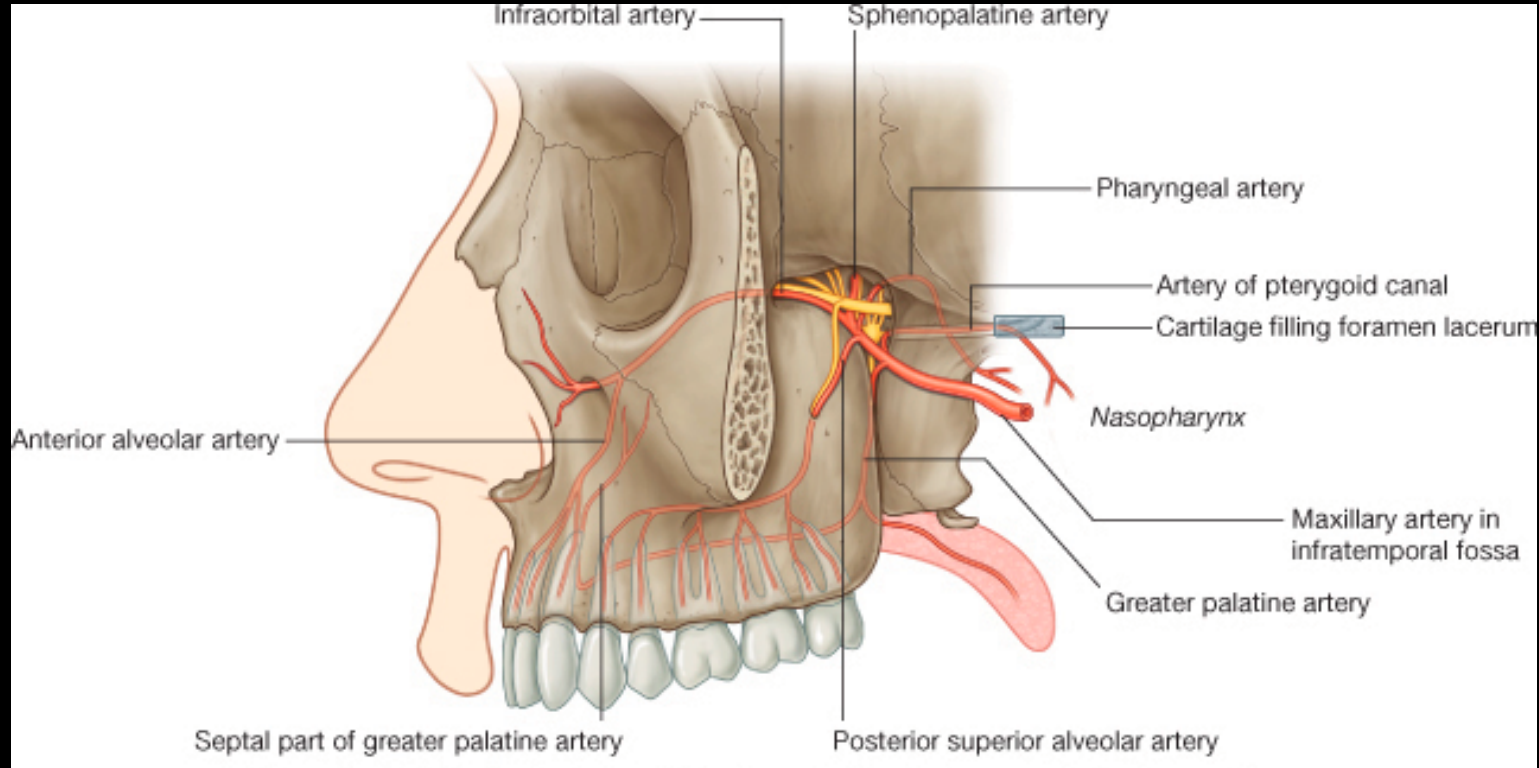
### a) Maxillary artery



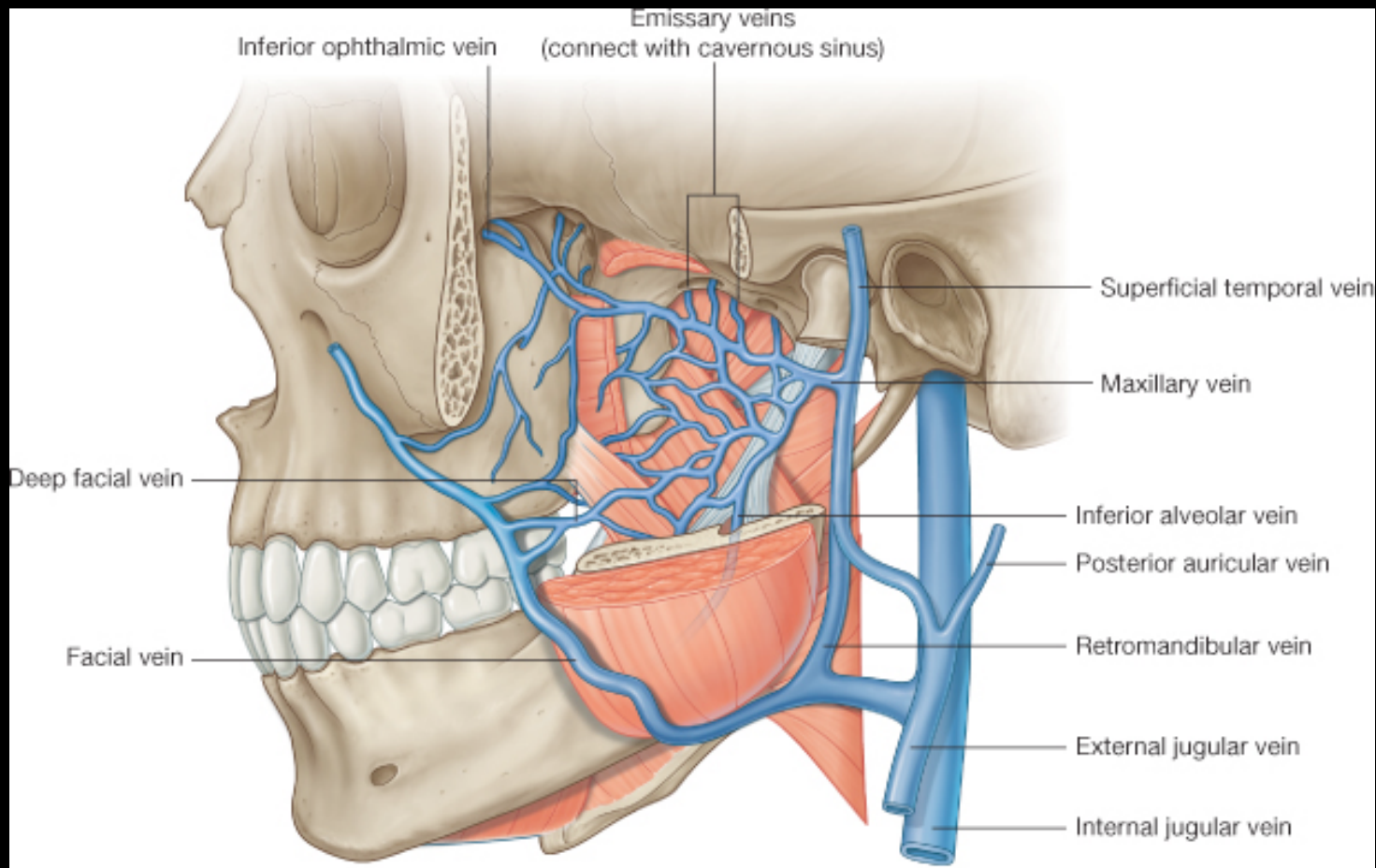
GAFS, Fig. 8.141

## 2) Pterygopalatine Fossa

### a) Maxillary artery



# Pterygopalatine fossa

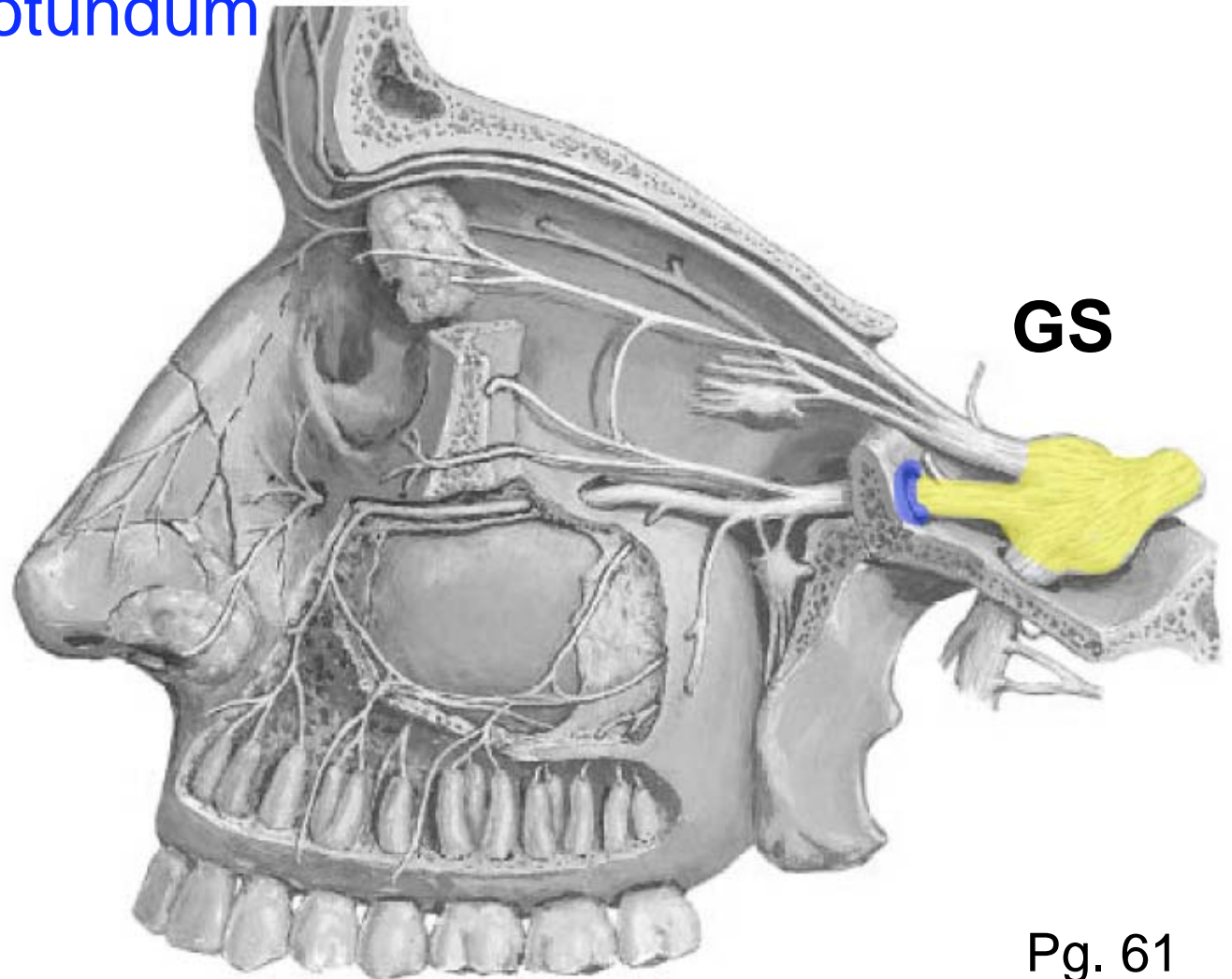


GAFS, Fig. 8.137

# Pterygopalatine fossa

b) CN V-2

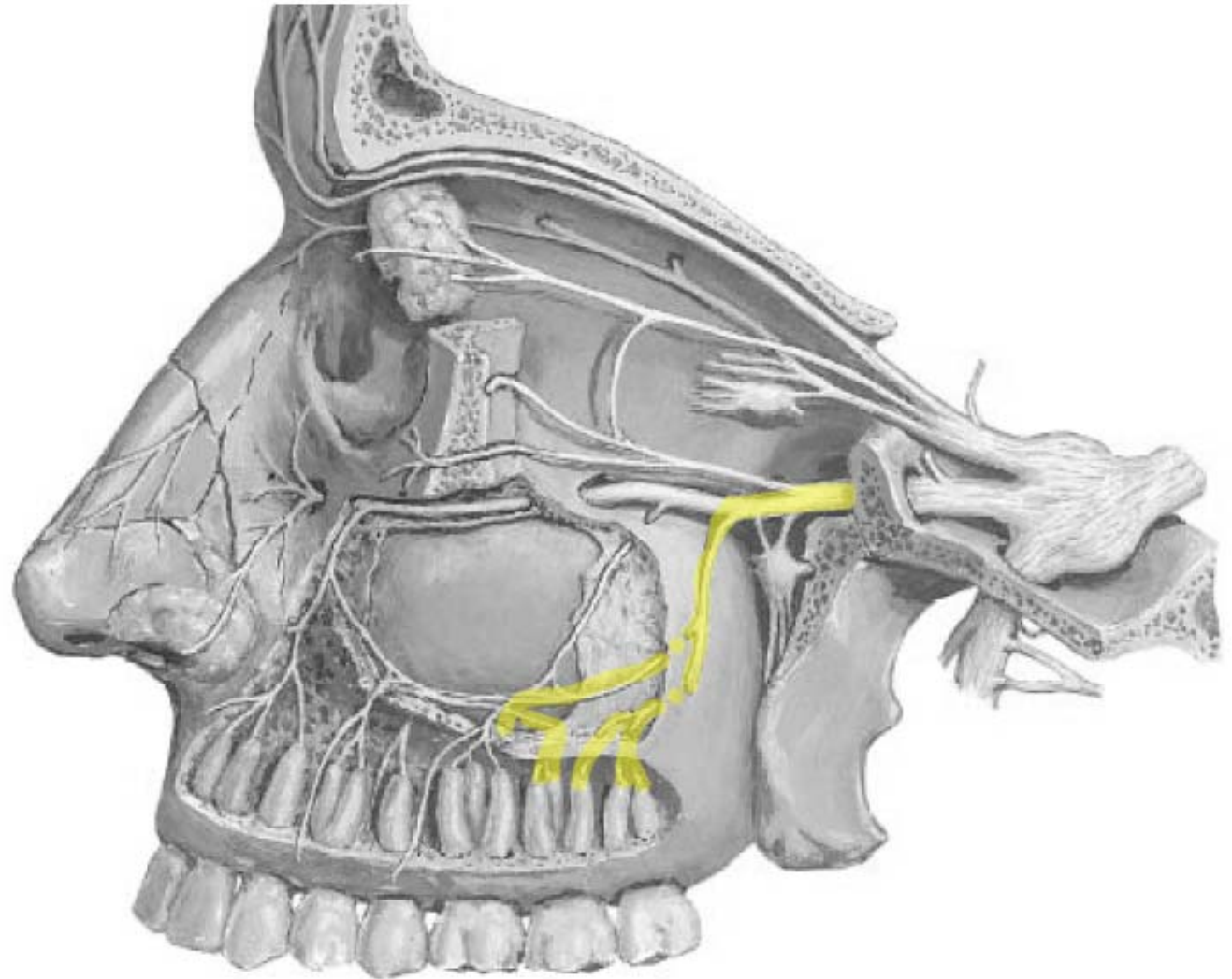
Foramen rotundum





# Pterygopalatine fossa

Posterior superior alveolar n. (PSA)

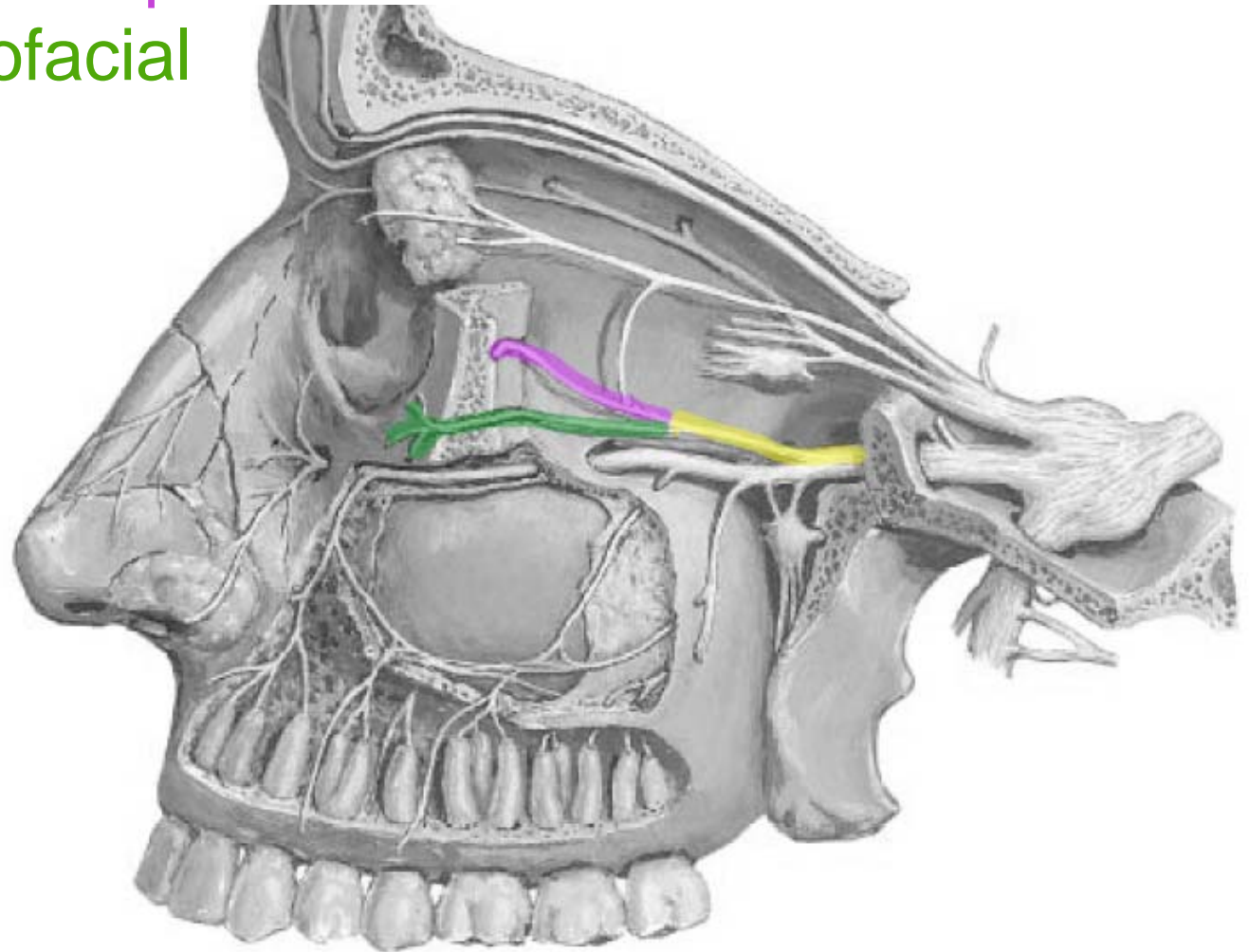


# Pterygopalatine fossa

Zygomatic n.

Zygomaticotemporal

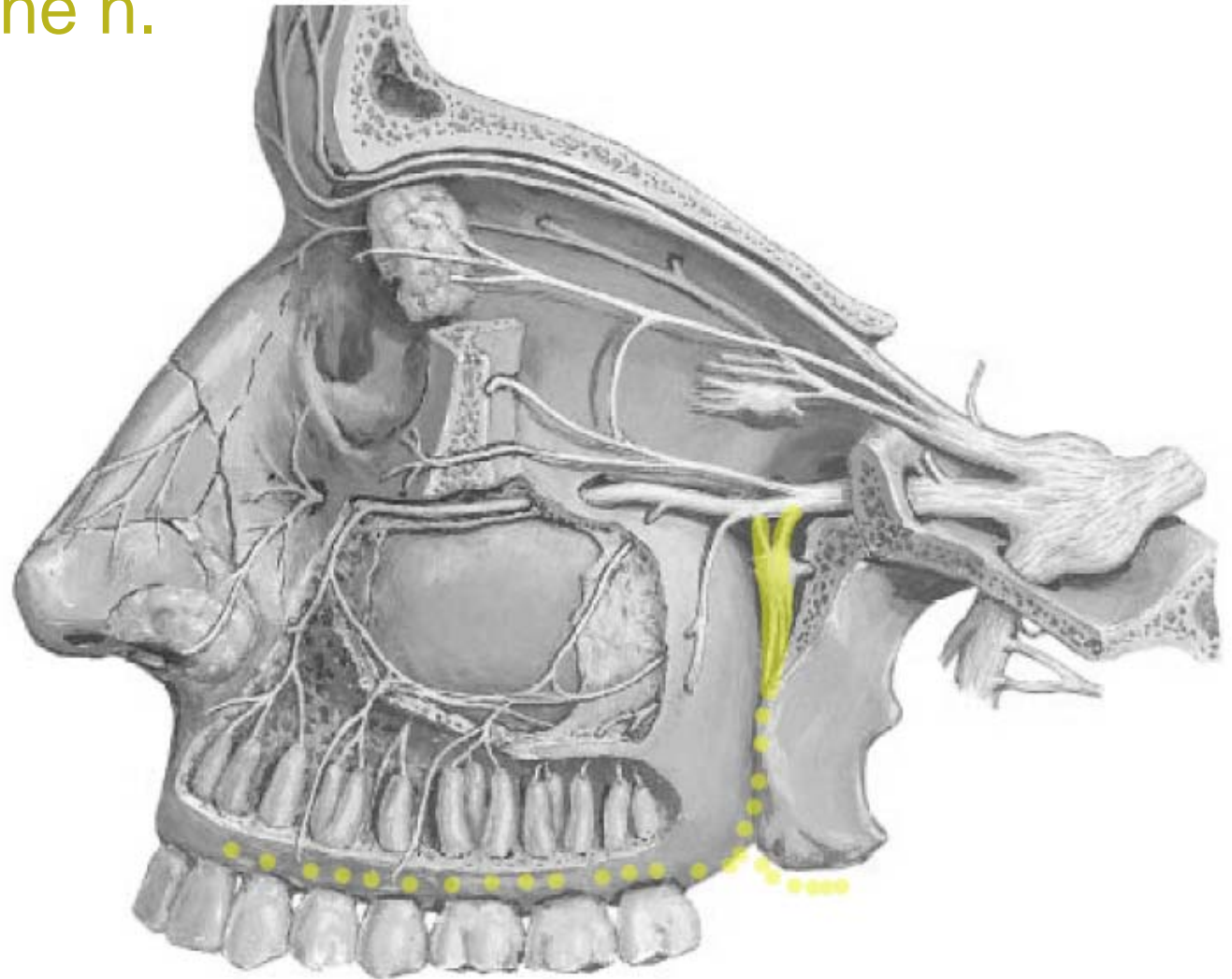
Zygomatofacial



# Pterygopalatine fossa

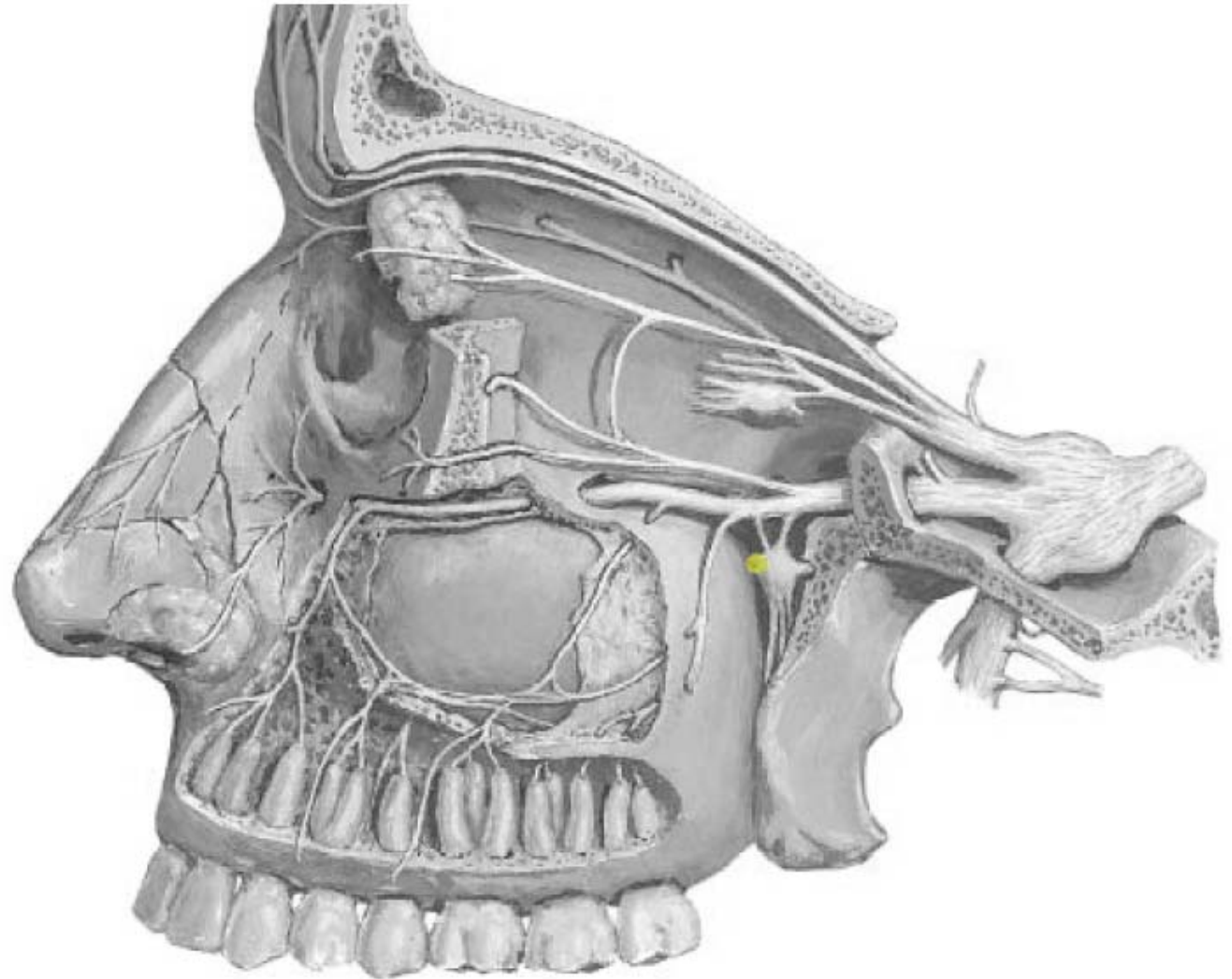
Greater palatine n.

Lesser palatine n.



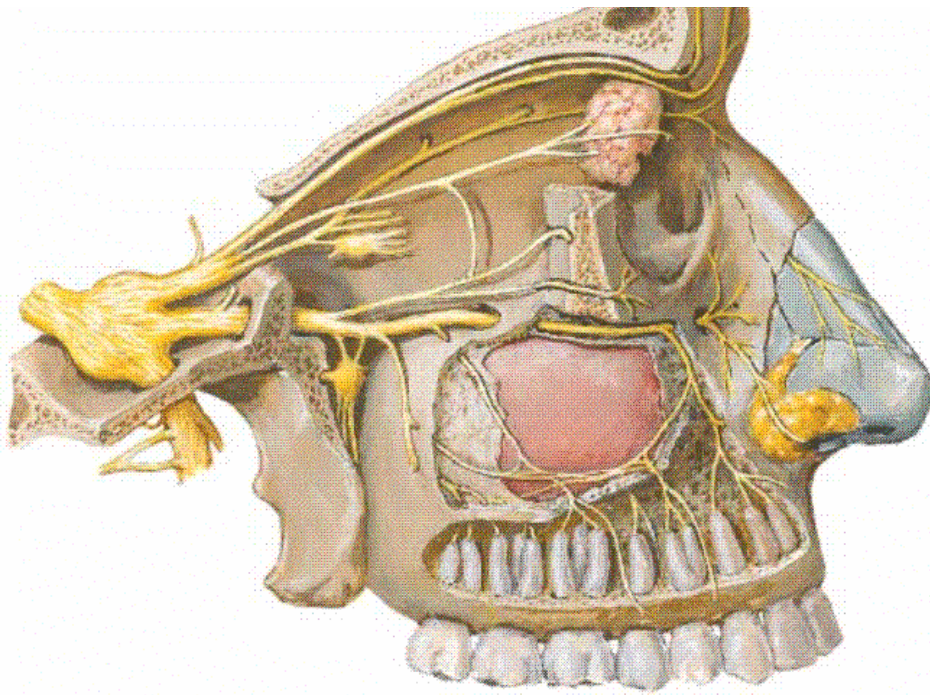
# Pterygopalatine fossa

Nasopalatine n.

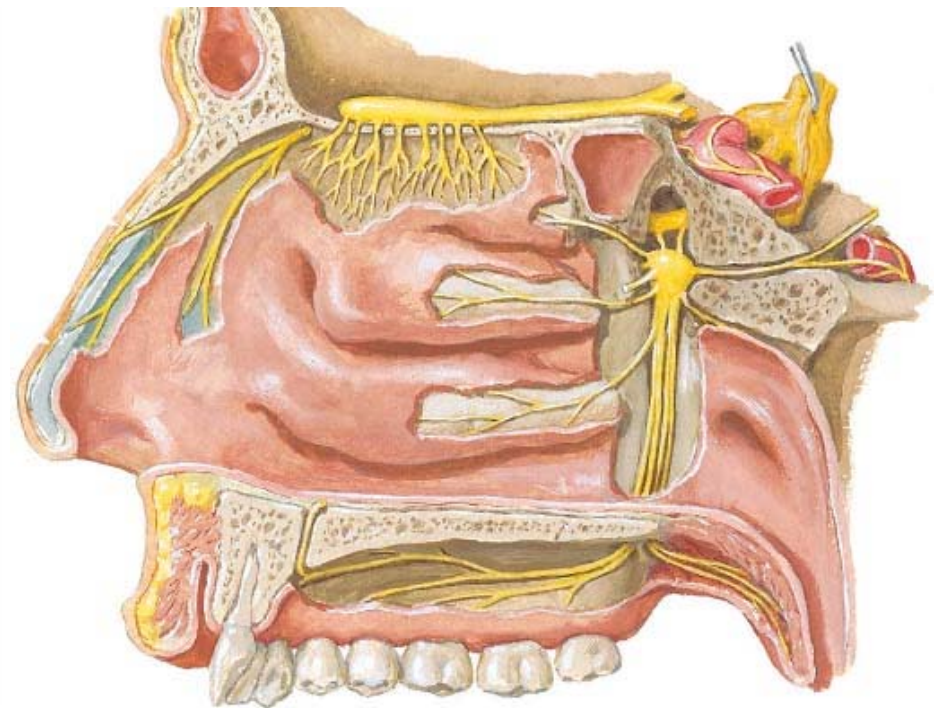


# Pterygopalatine fossa

Nasopalatine n.

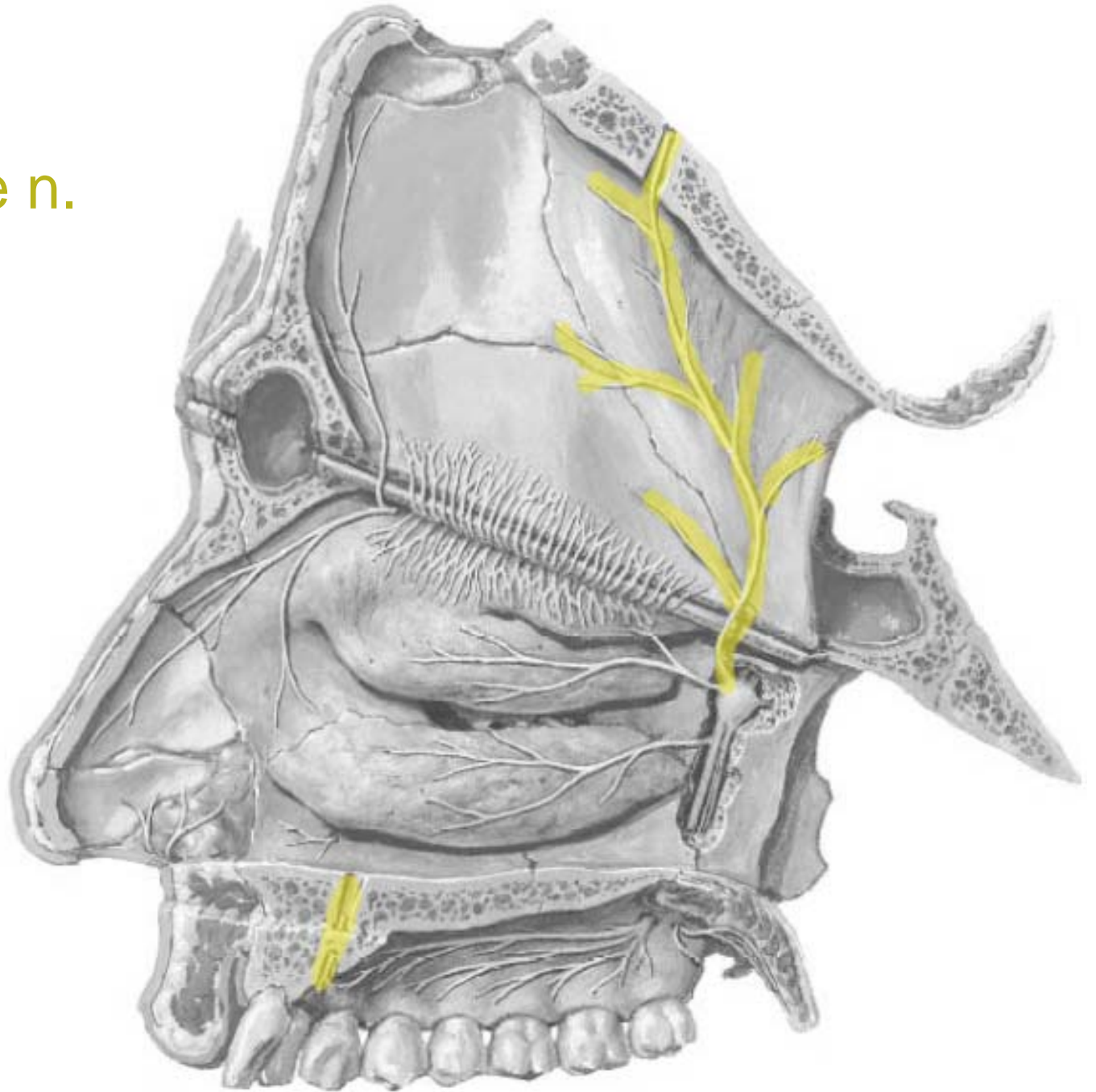


Lateral view



Medial view

Nasopalatine n.

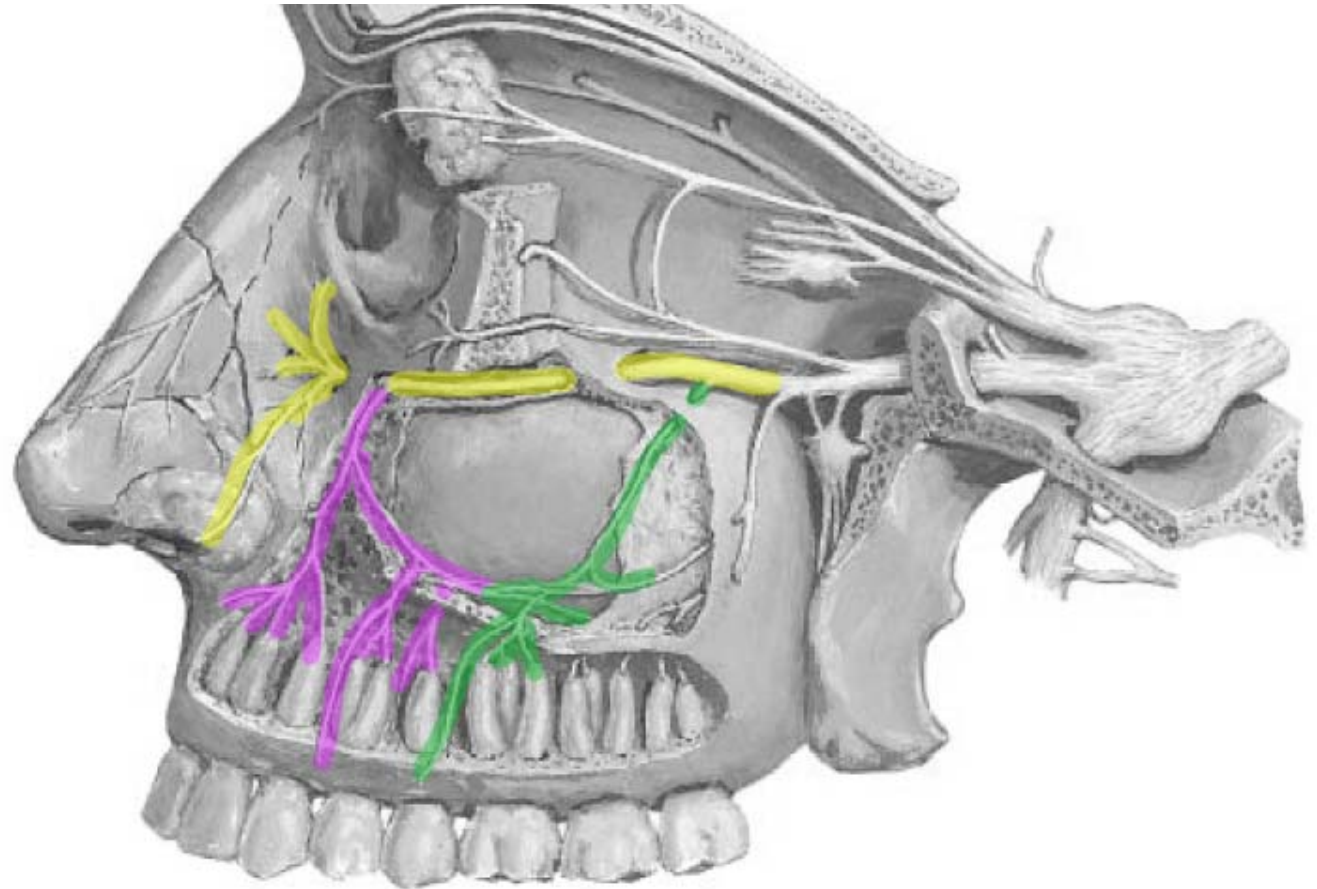


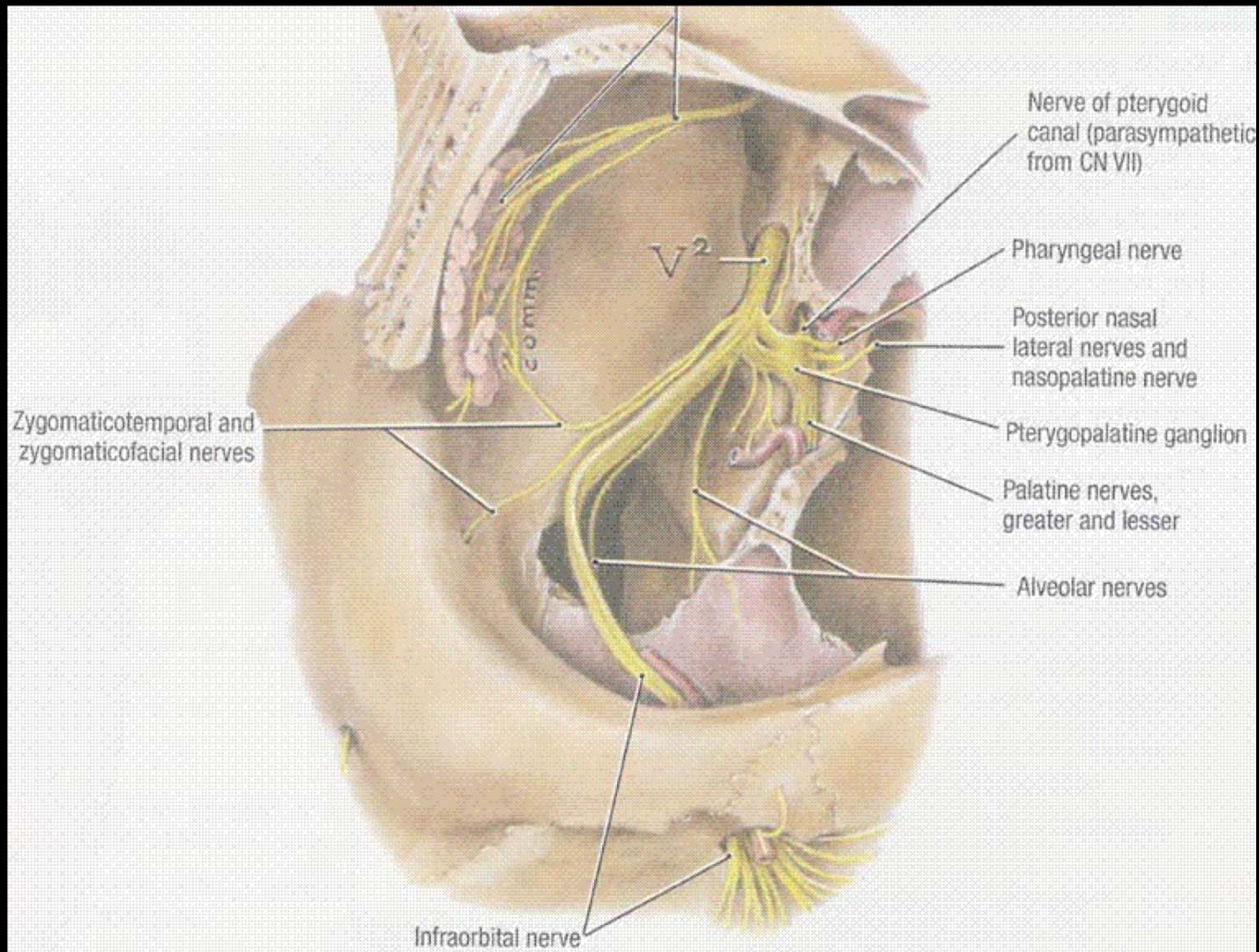
# Pterygopalatine fossa

Infraorbital n.

Mid. sup. alveolar n. (MSA)

Ant. sup. alveolar n. (ASA)





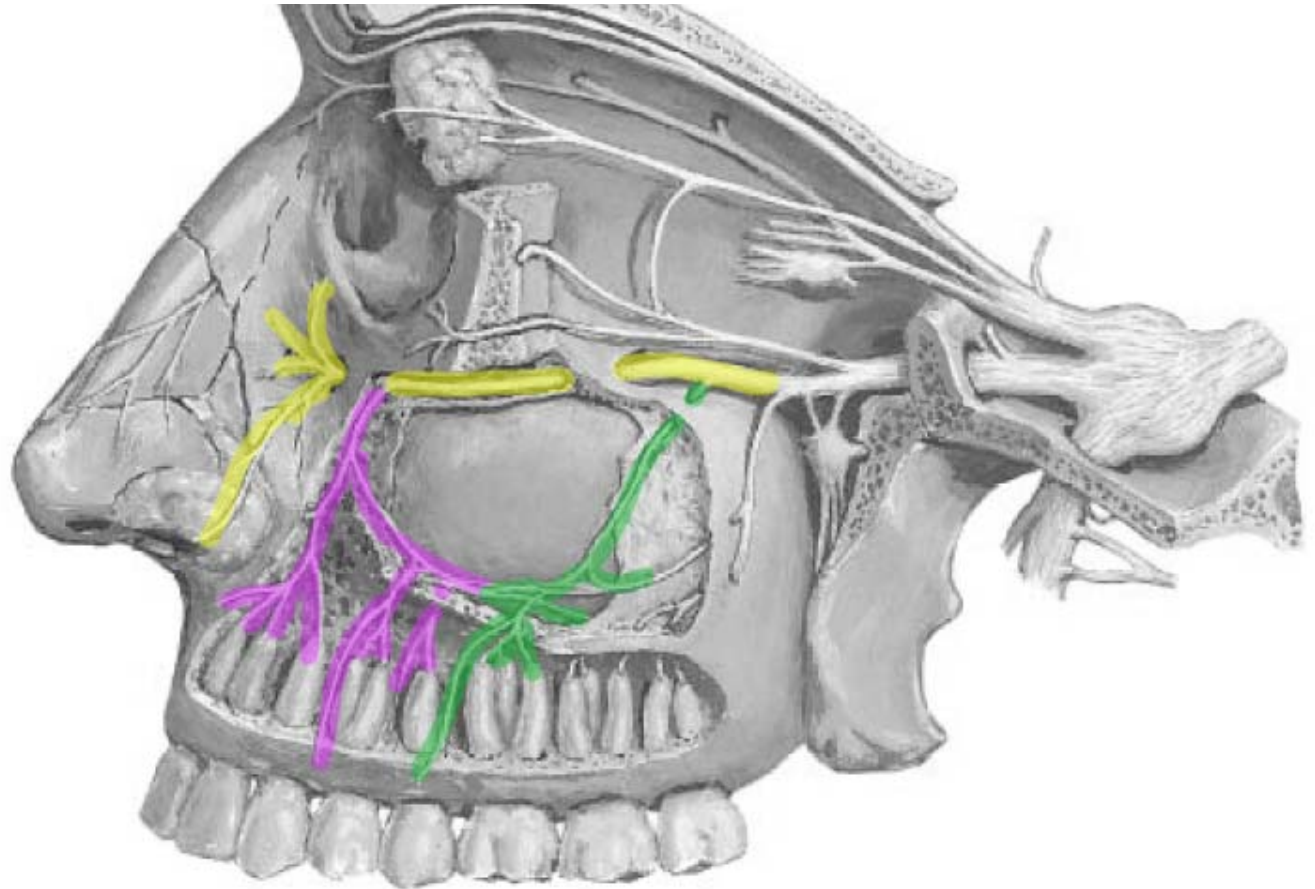
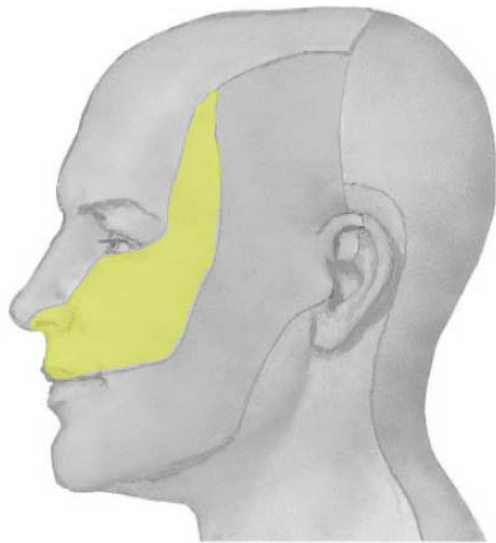


# Pterygopalatine fossa

Infraorbital n.

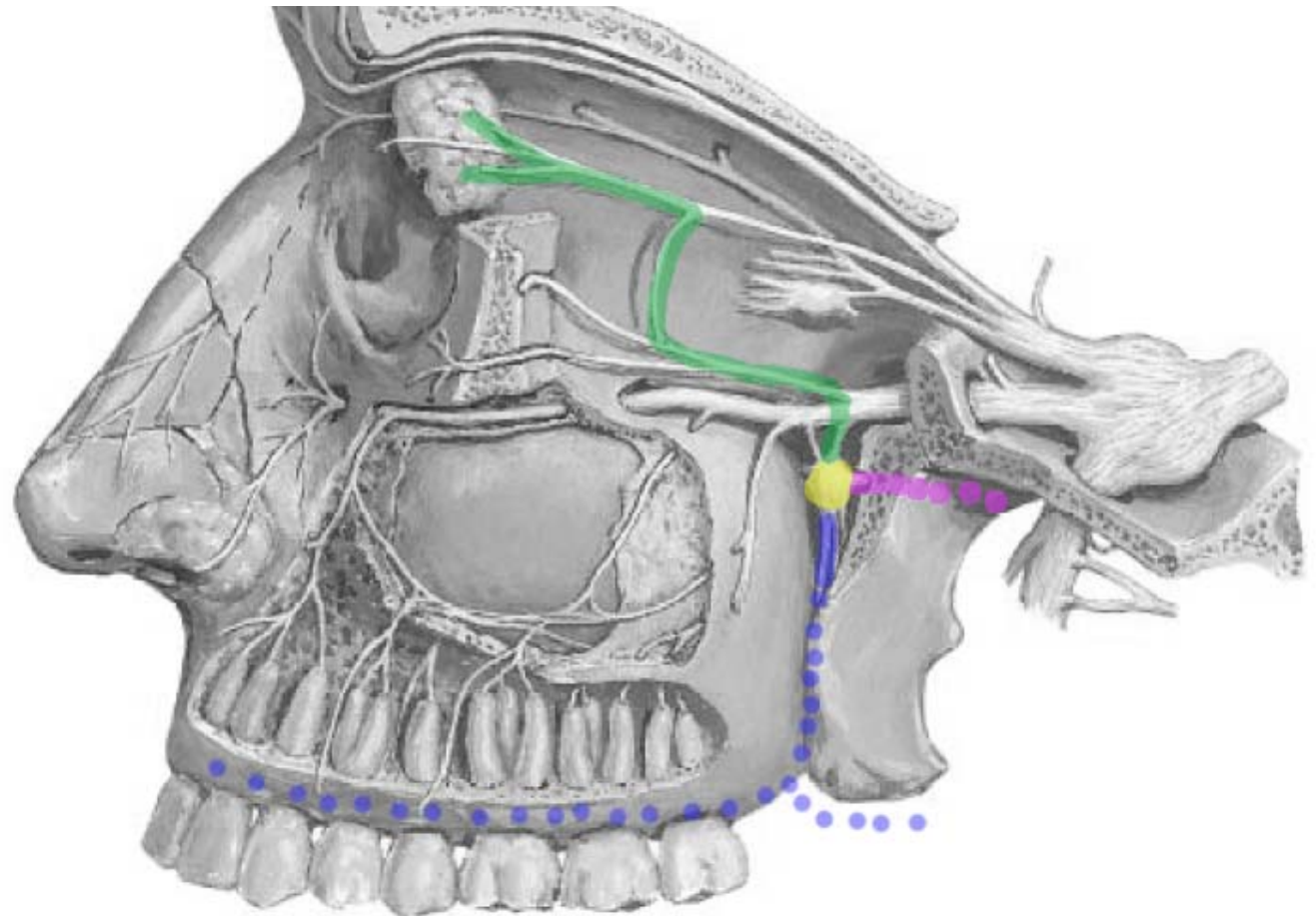
Mid. sup. alveolar n. (MSA)

Ant. sup. alveolar n. (ASA)



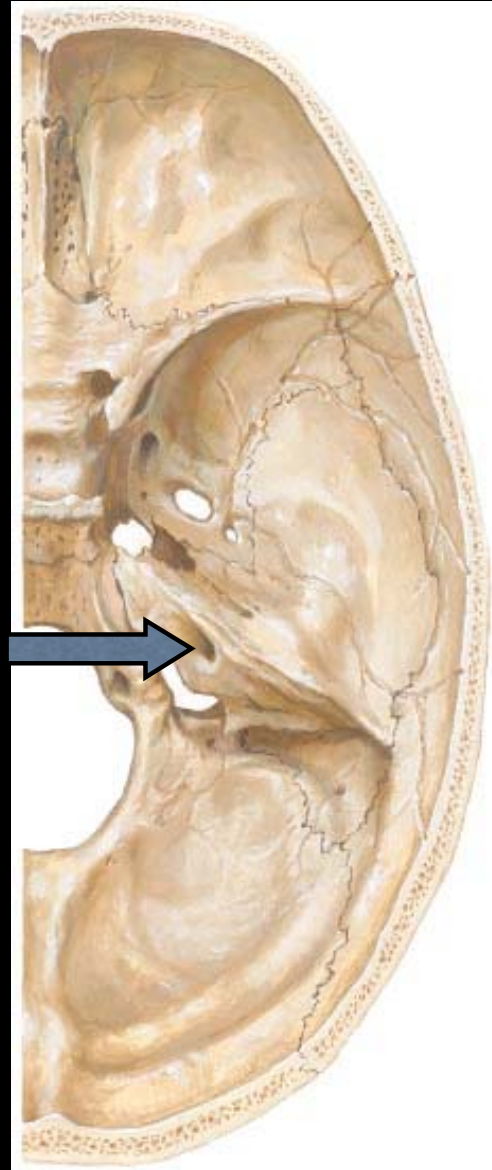
# Pterygopalatine fossa

N. of the pterygoid canal (Vidian's nerve)



# Pterygopalatine fossa

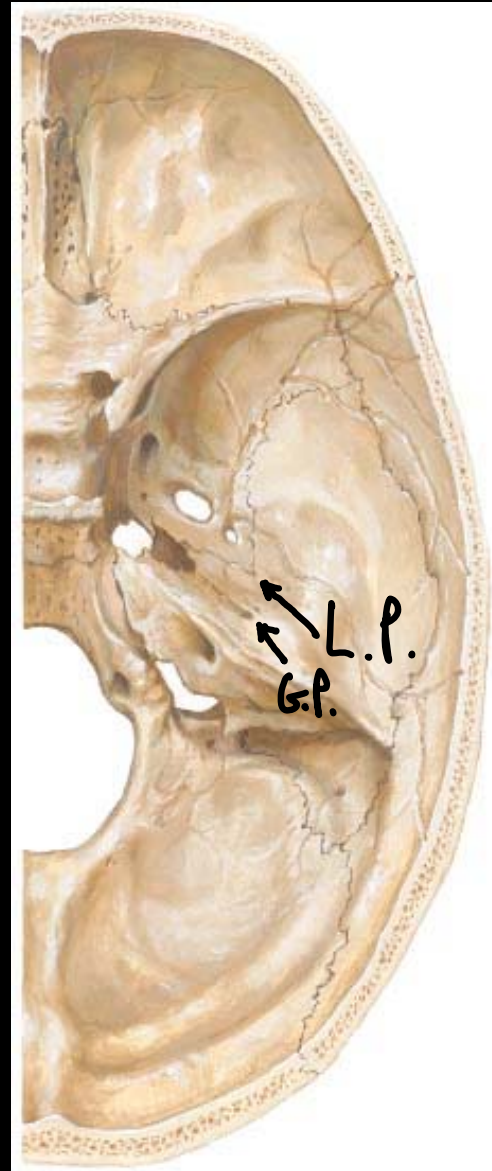
N. of the pterygoid canal (Vidian's nerve)



Internal  
acoustic  
meatus

# Pterygopalatine fossa

N. of the pterygoid canal (Vidian's nerve)

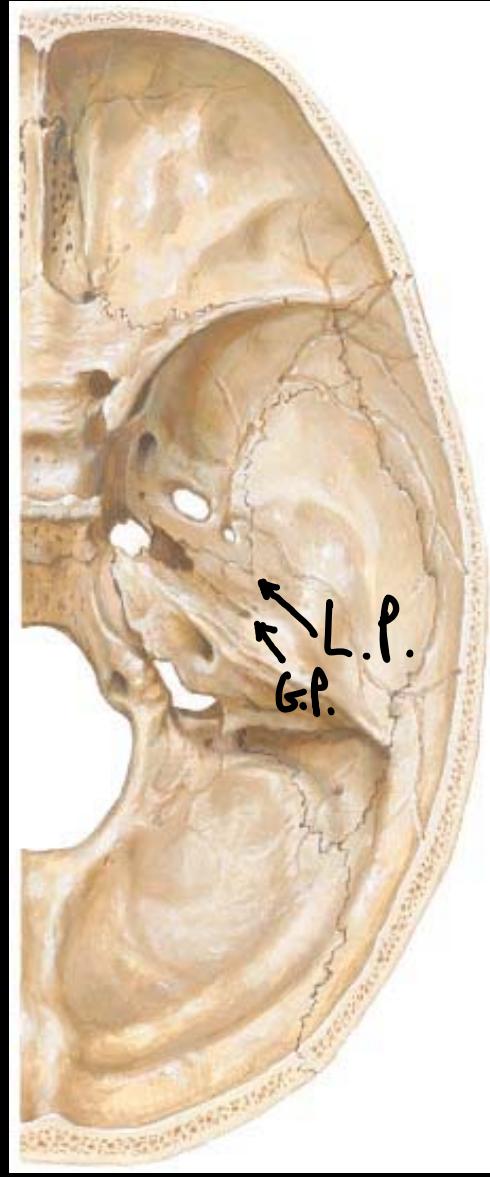


Greater  
petrosal hiatus

# Pterygopalatine fossa

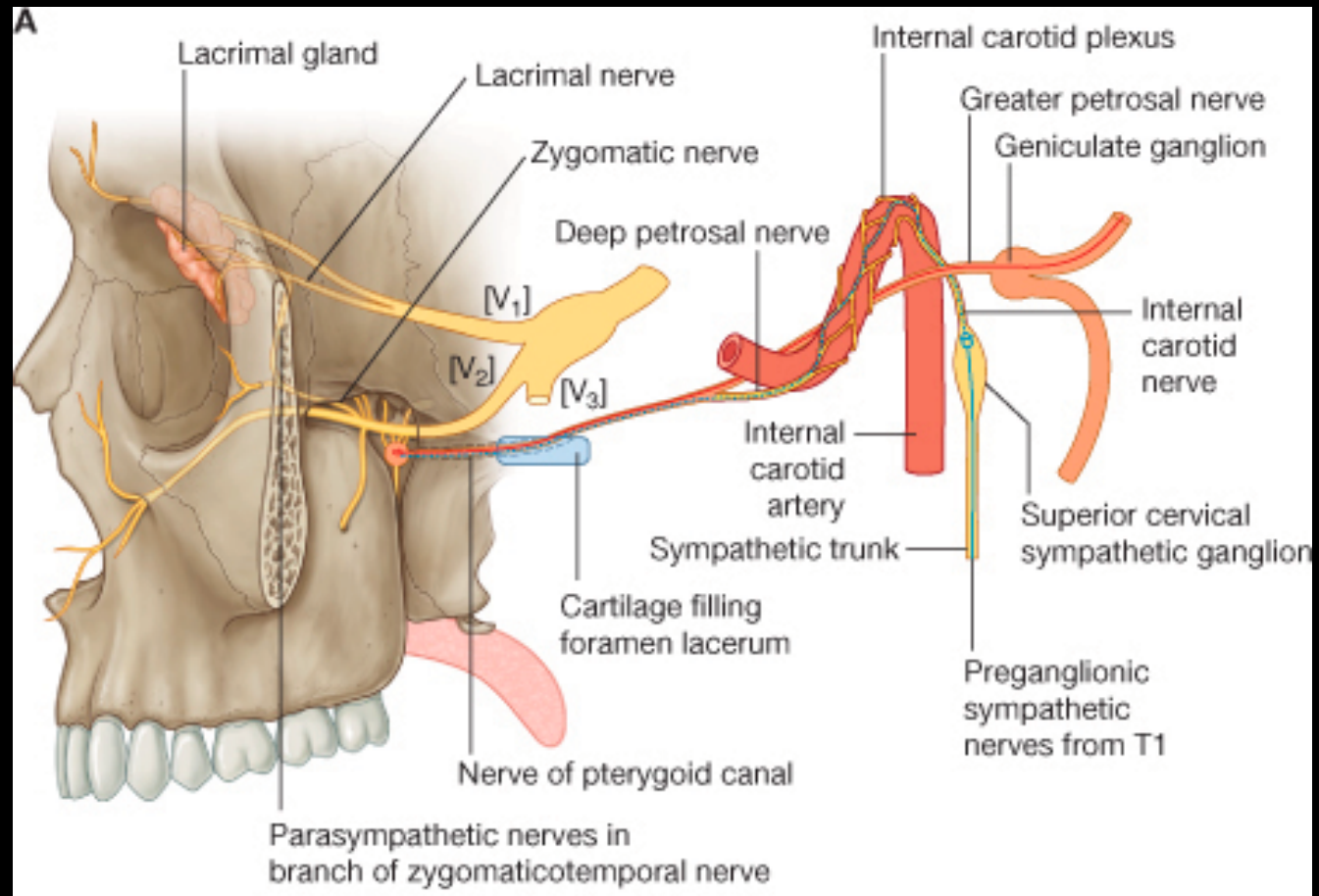
N. of the pterygoid canal (Vidian's nerve)

Pterygoid  
canal



Greater  
petrosal hiatus

# Pterygopalatine fossa

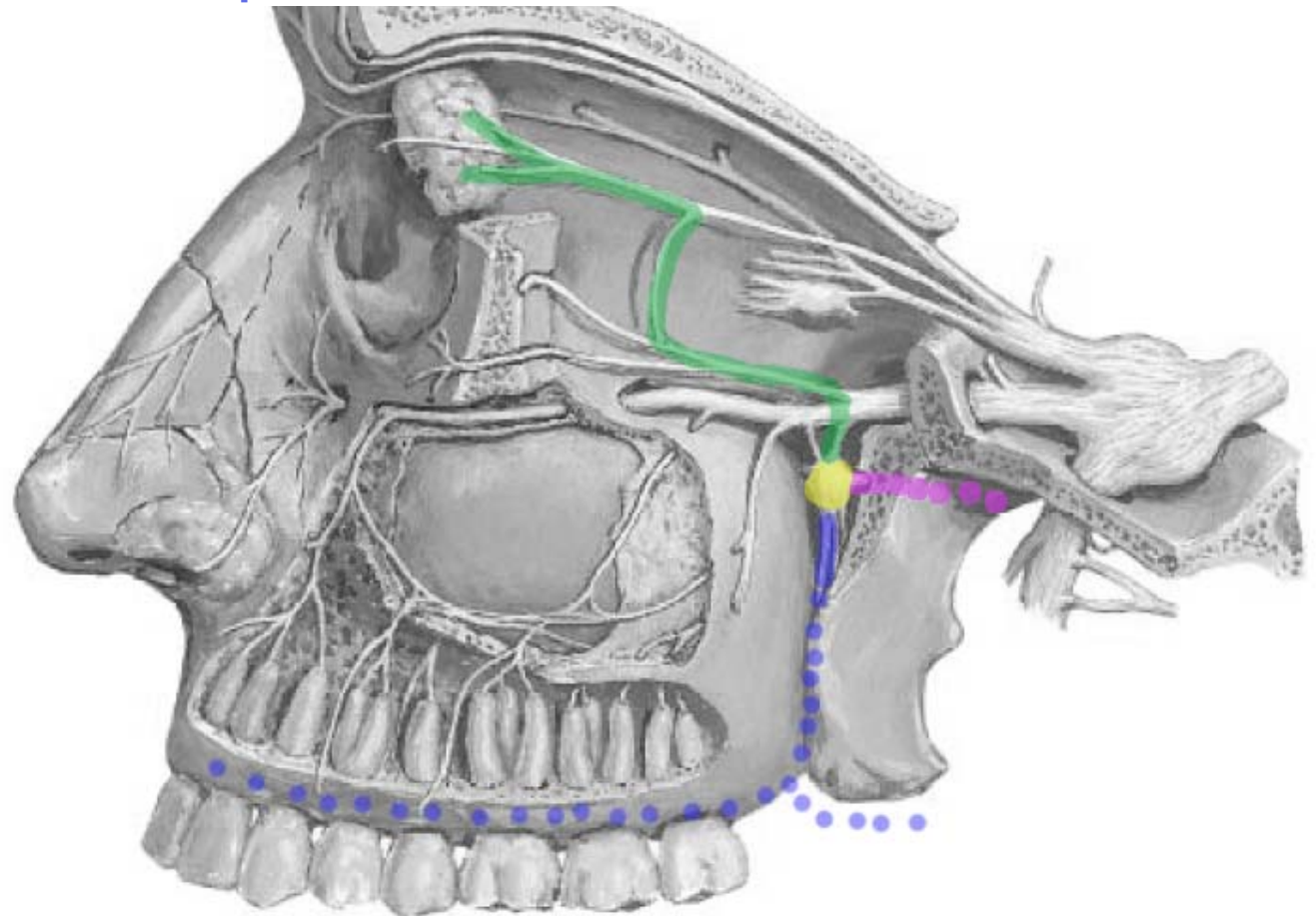


# Pterygopalatine fossa

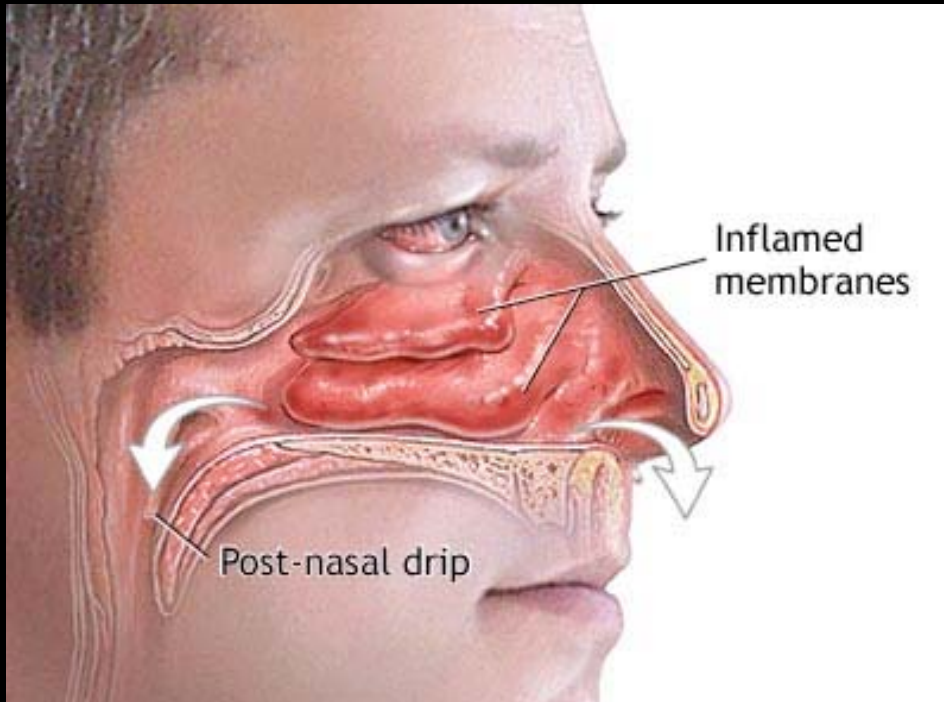
N. of the pterygoid canal (Vidian's nerve)

Zygomatic (V-2) - Lacrimal n. (V-1) - Lacrimal gland

Greater and lesser palatine nn.

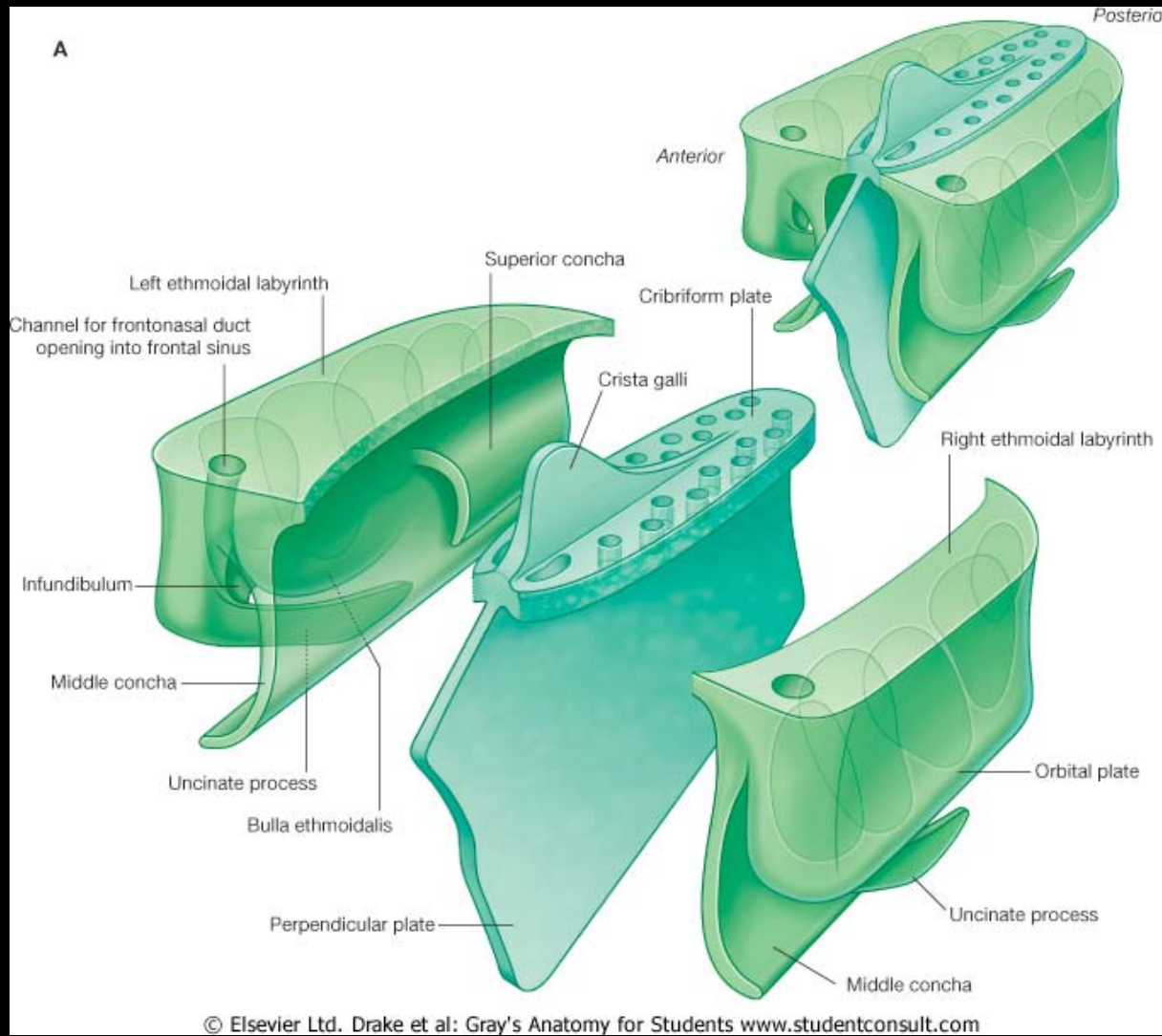


# 3) Nasal Cavity

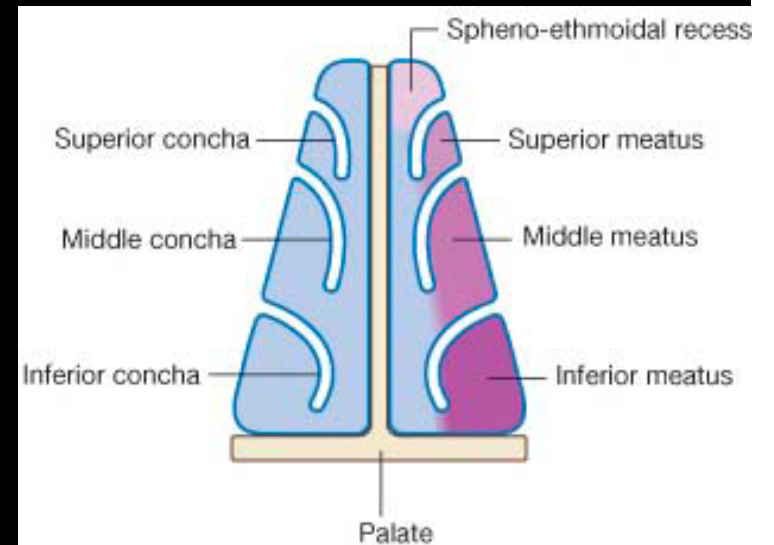
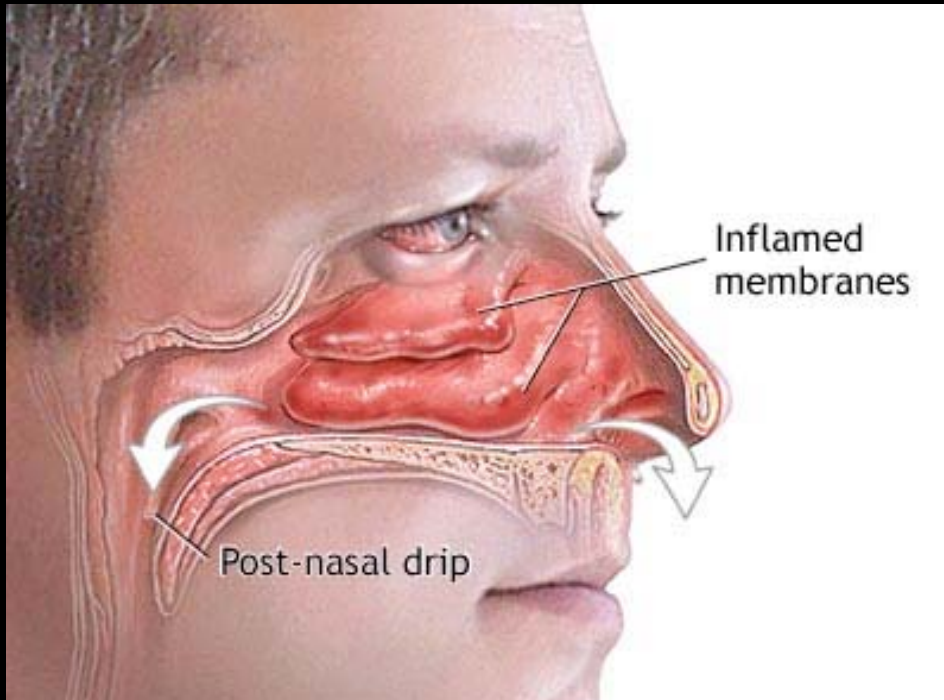




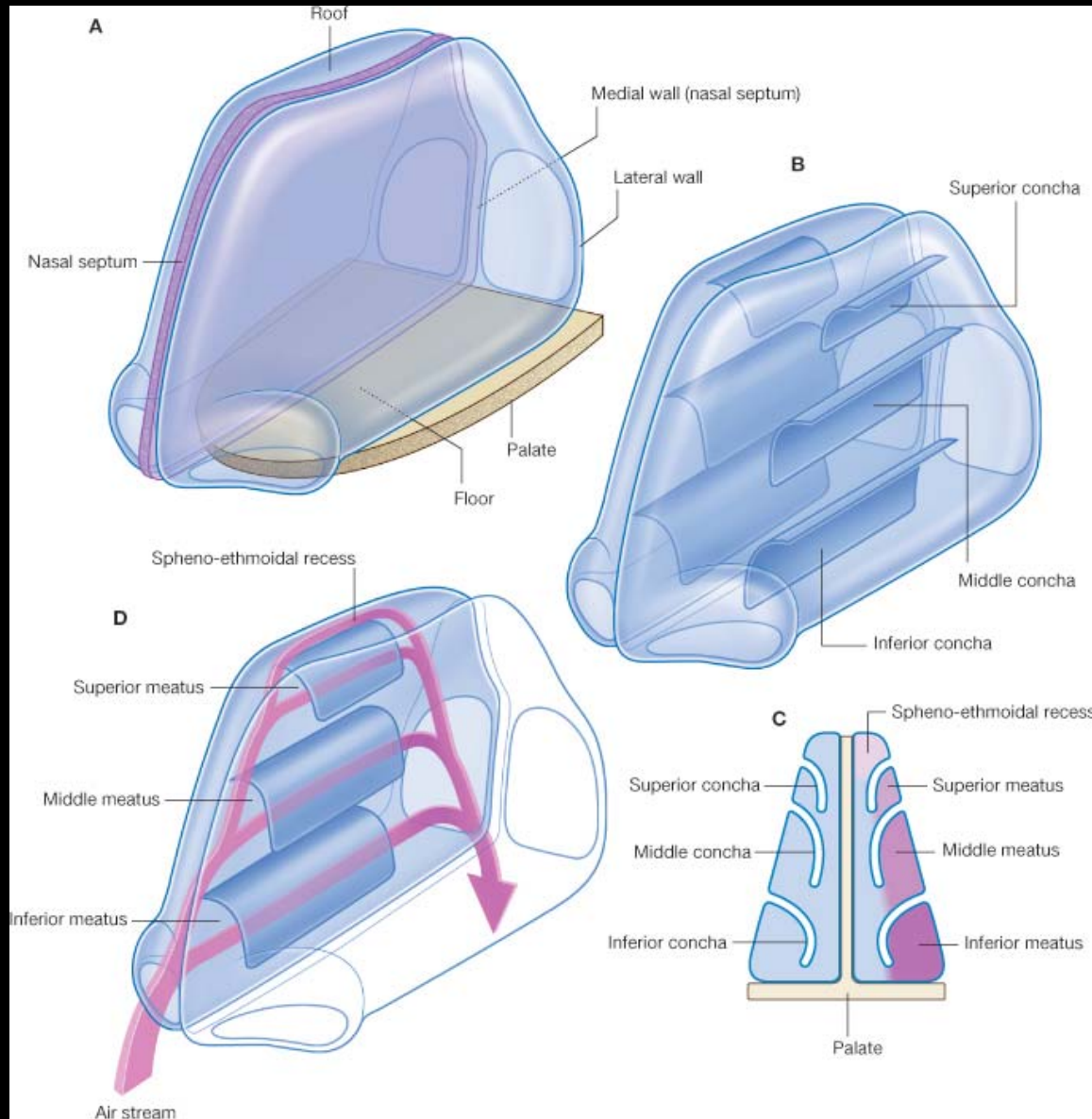
# 3) Nasal Cavity



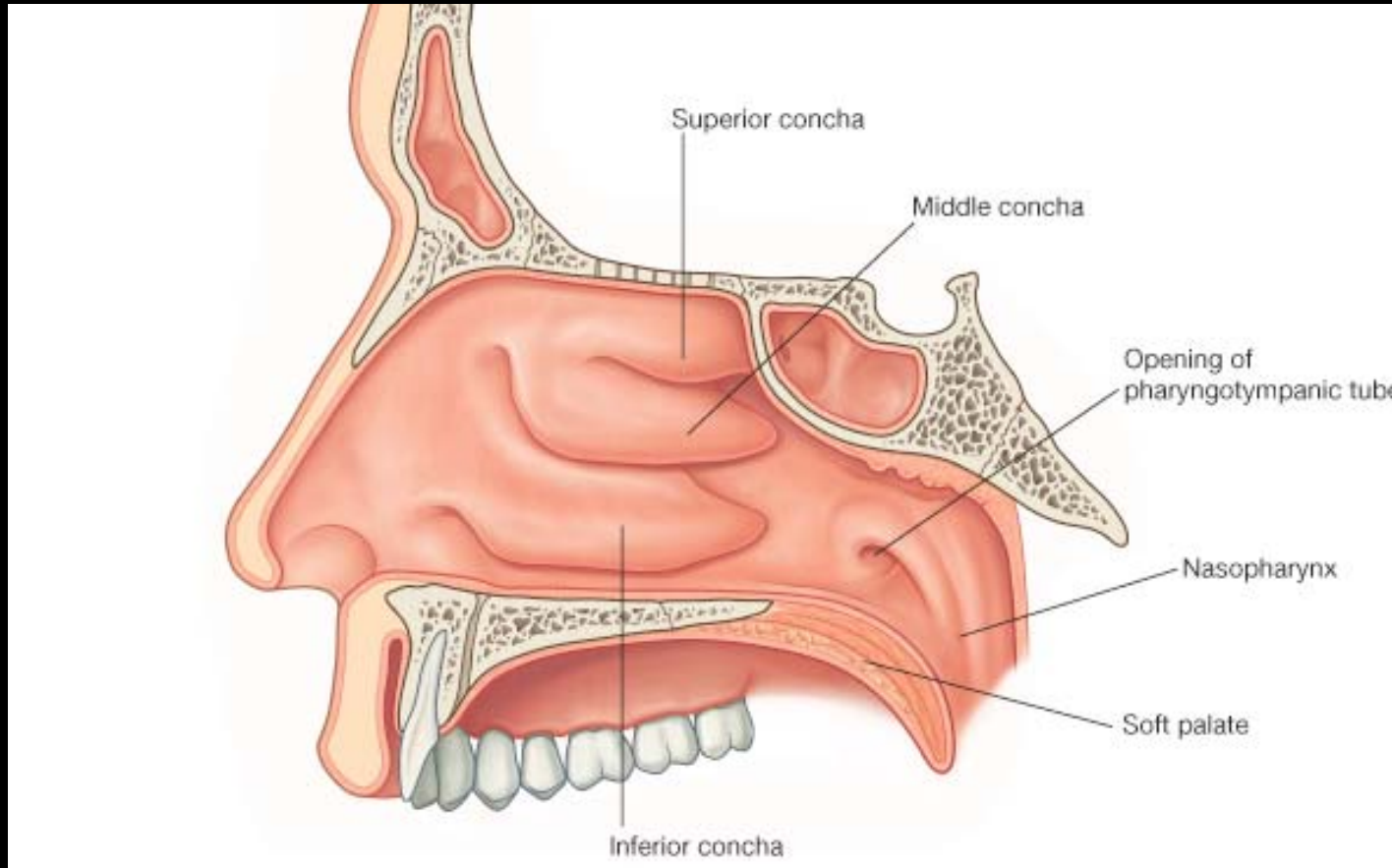
# 3) Nasal Cavity



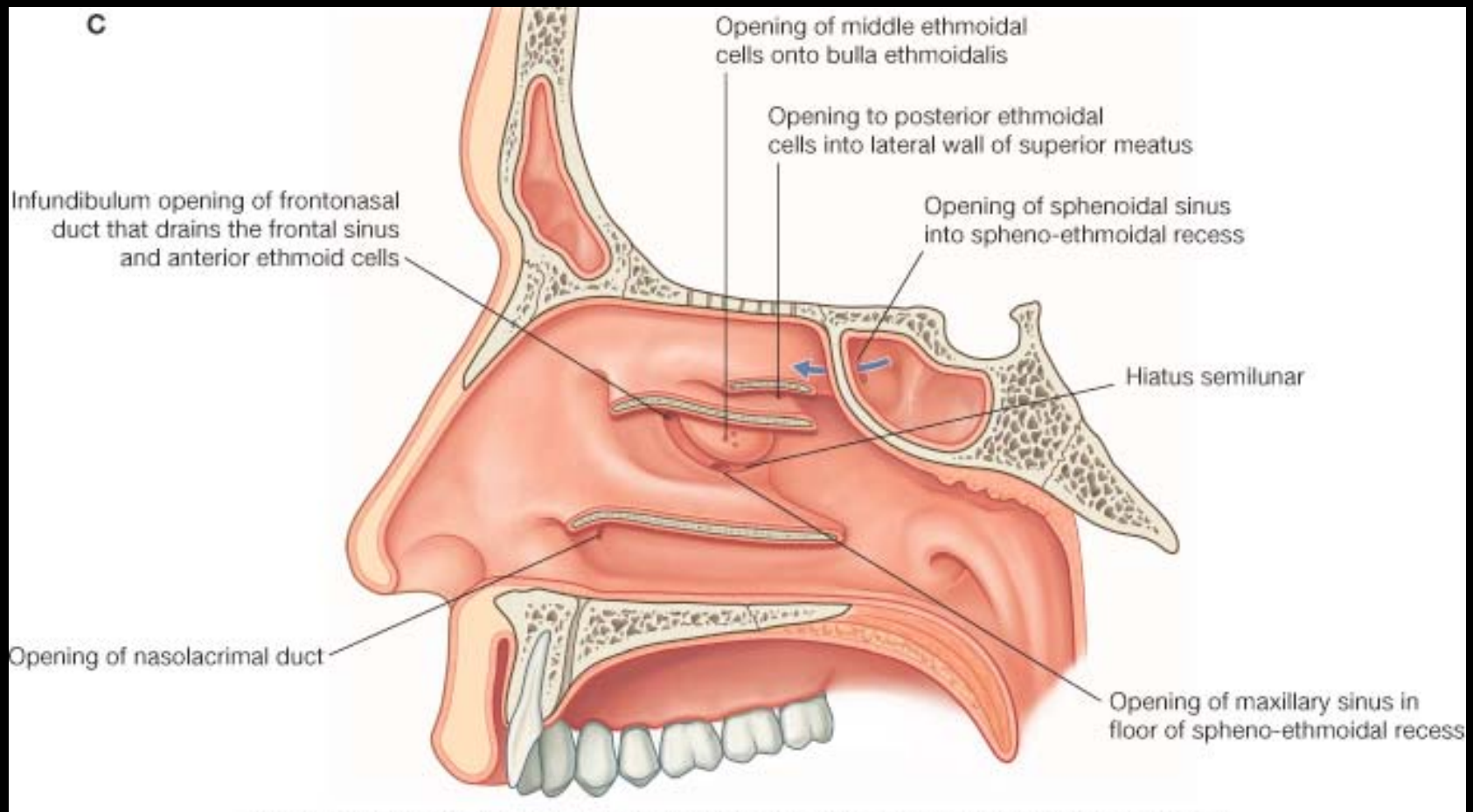
# 3) Nasal Cavity



# 3) Nasal Cavity



# 3) Nasal Cavity



# 4) Paranasal Sinuses

Frontal sinus

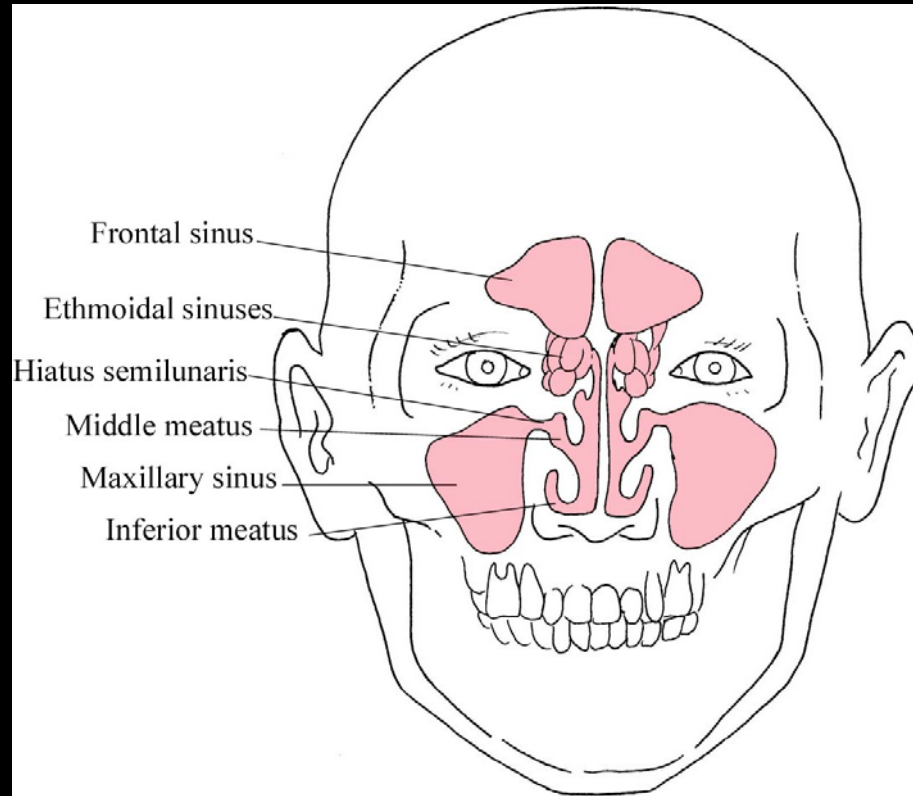
Maxillary sinus

Ethmoid sinus

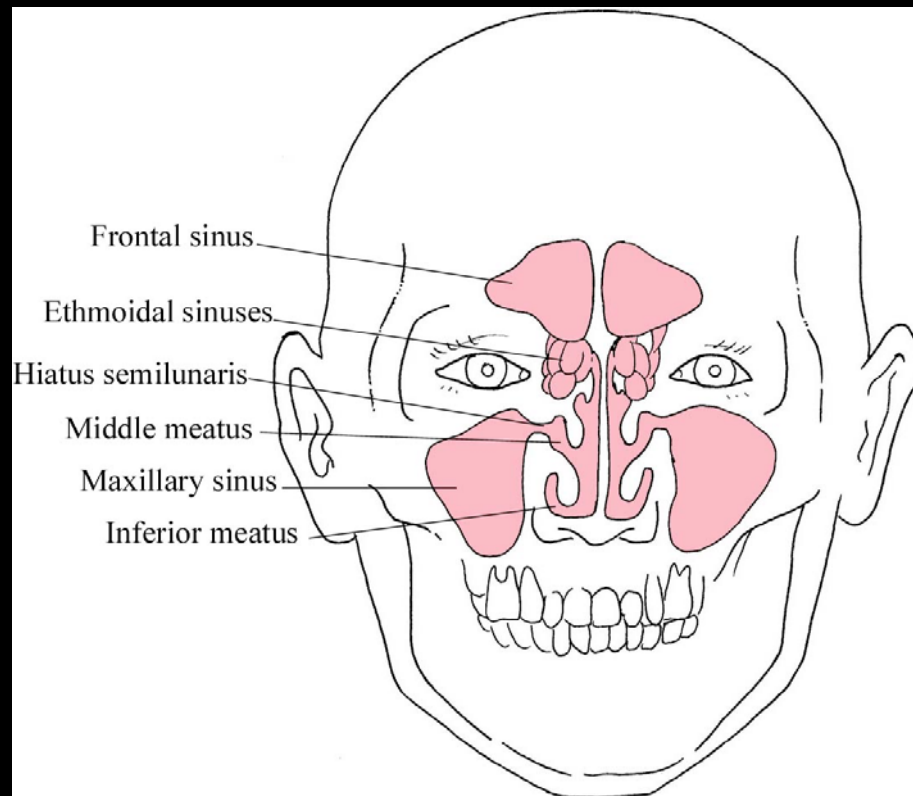
Sphenoid sinus



# 4) Paranasal Sinuses



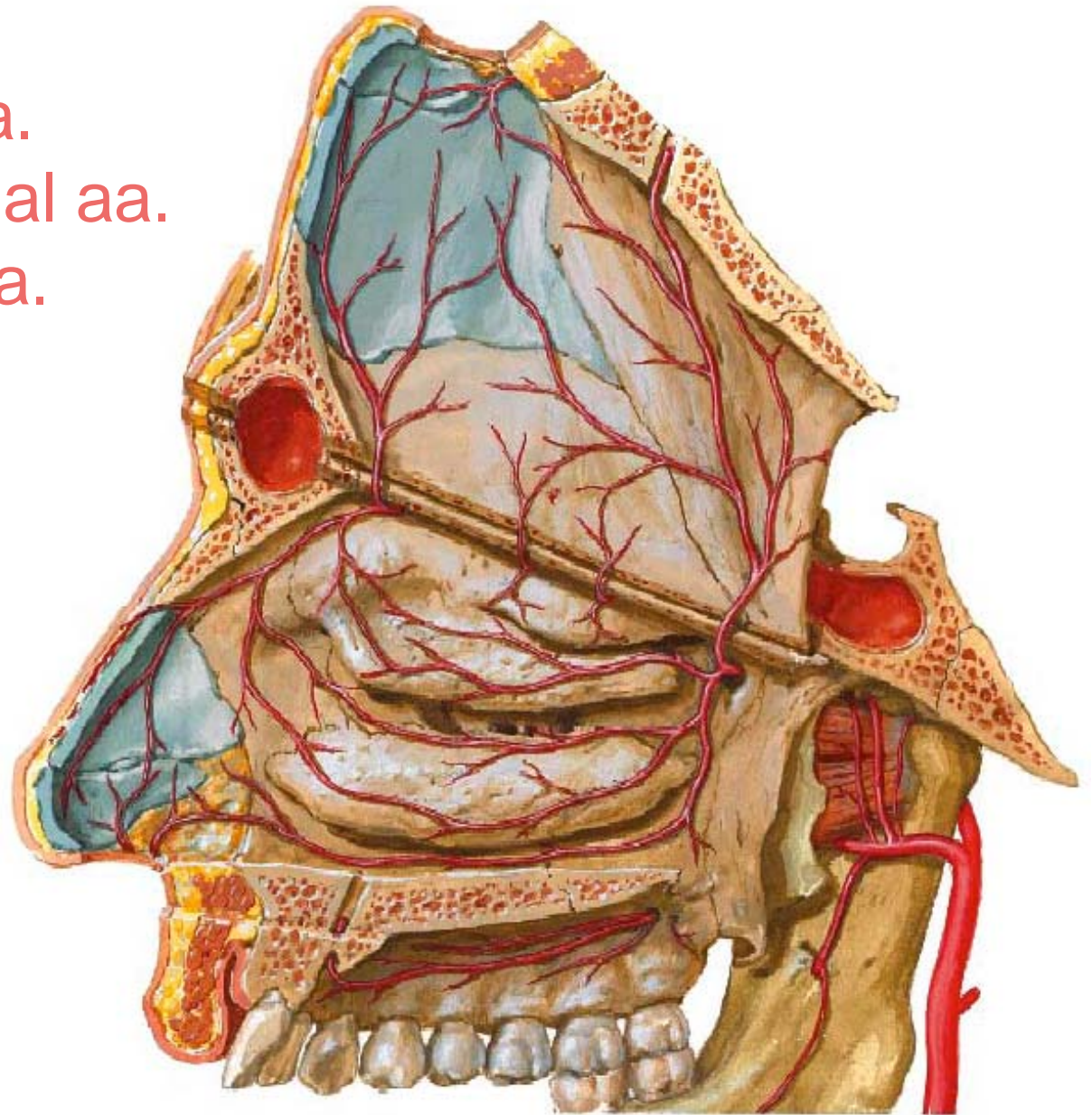
# 4) Paranasal Sinuses





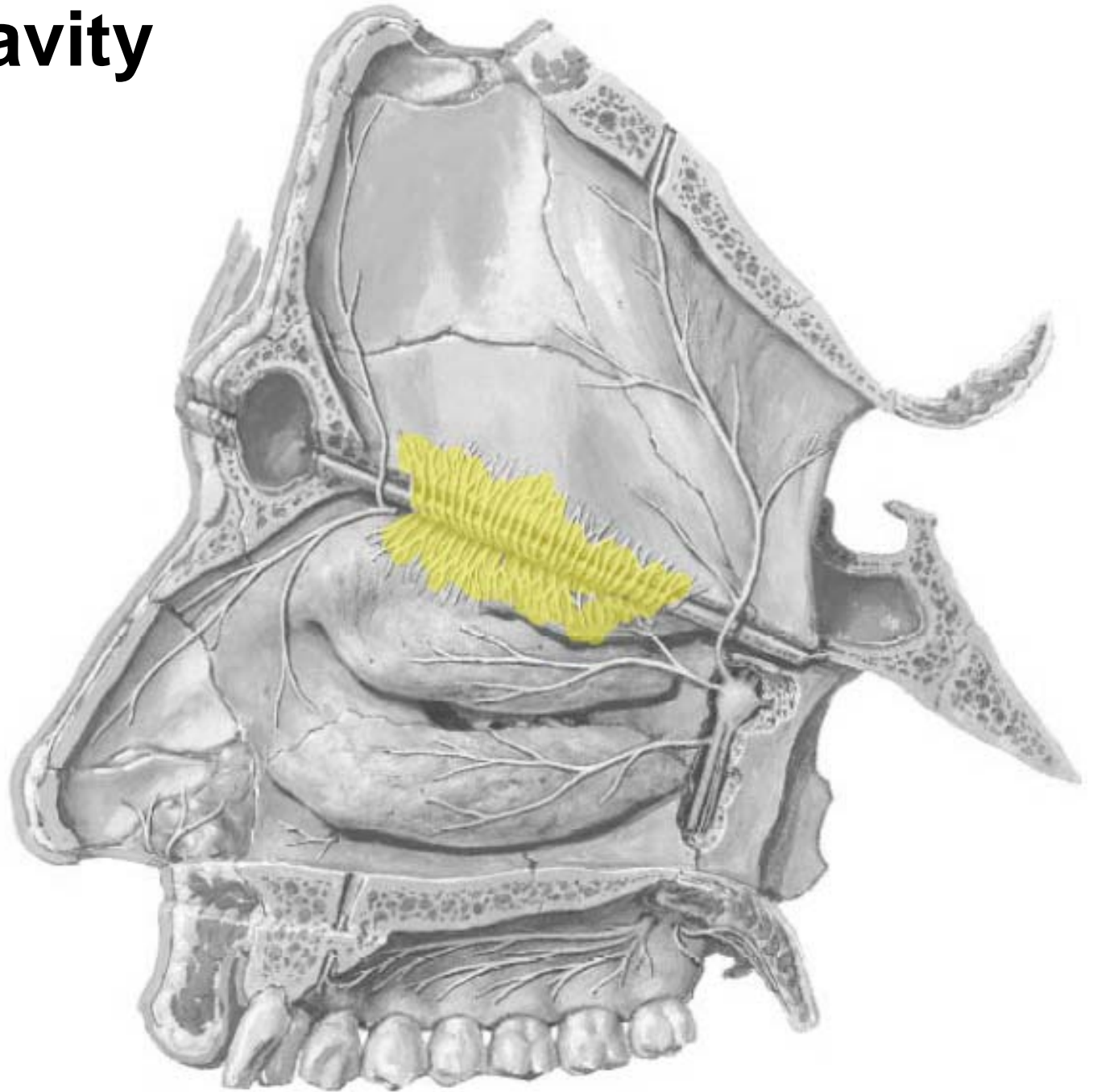
### 3) Nasal Cavity

Sphenopalatine a.  
Ant/Post ethmoidal aa.  
Greater palatine a.  
Facial aa.



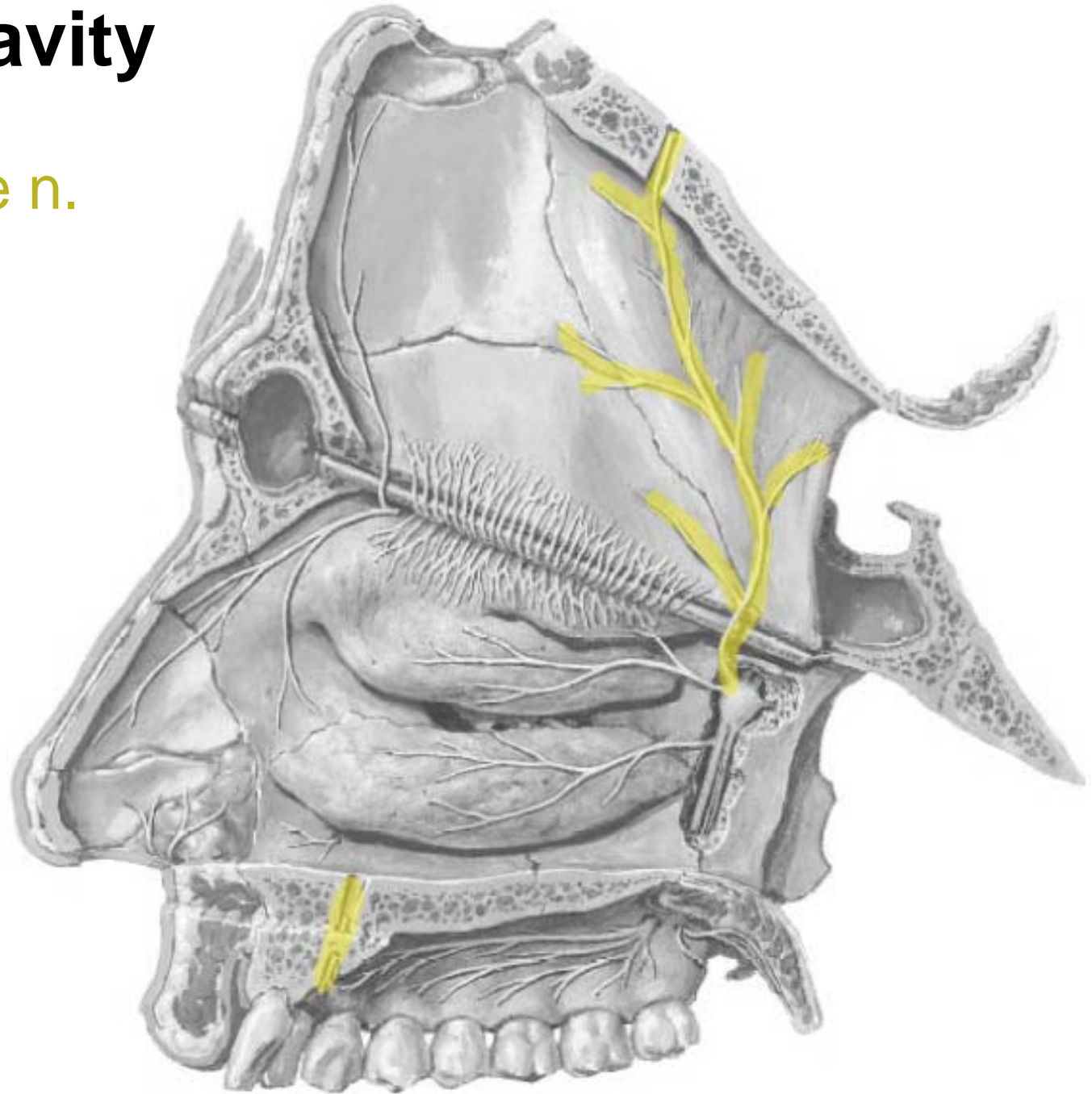
# 3) Nasal Cavity

Olfactory n.



# 3) Nasal Cavity

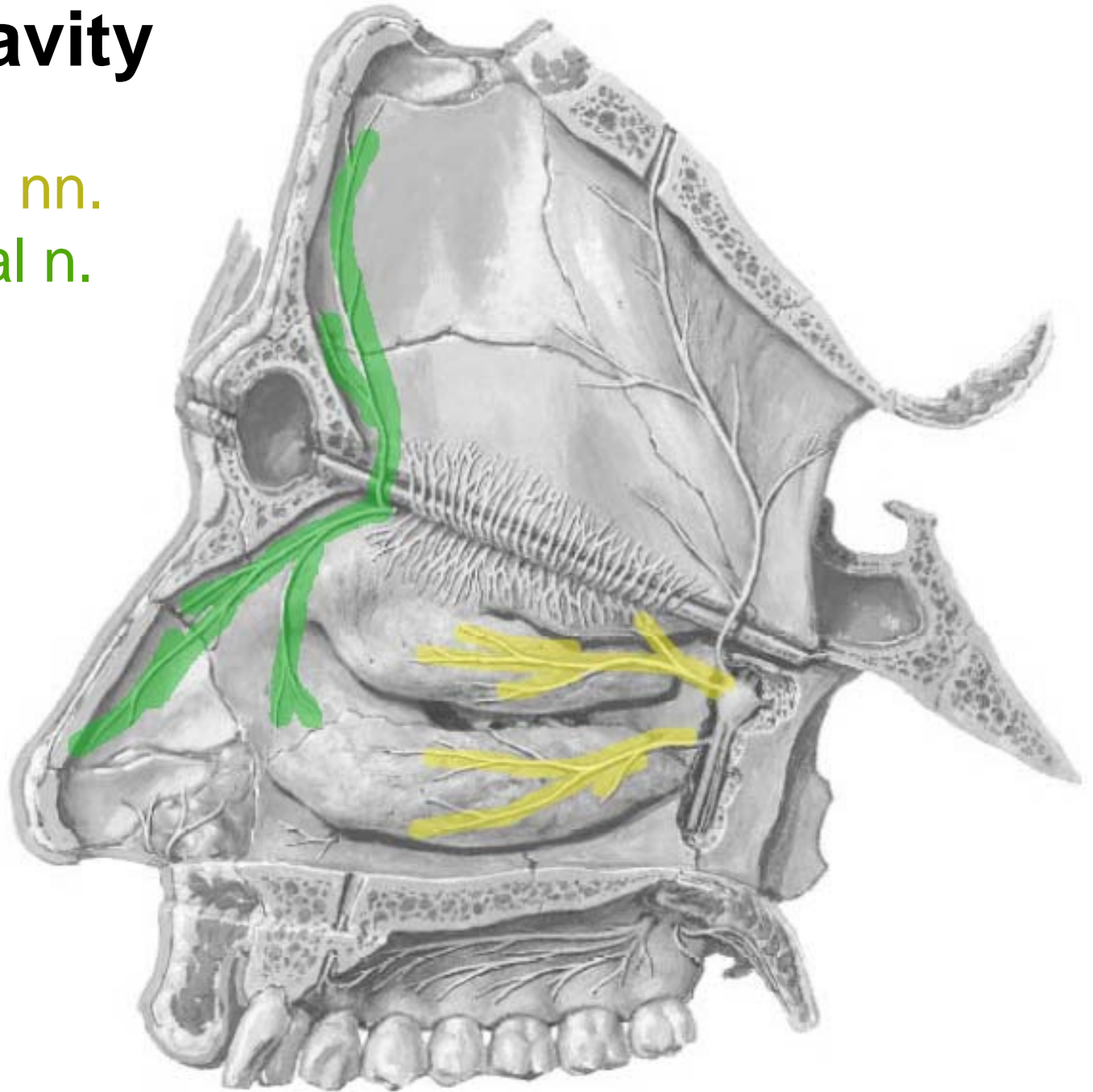
Nasopalatine n.

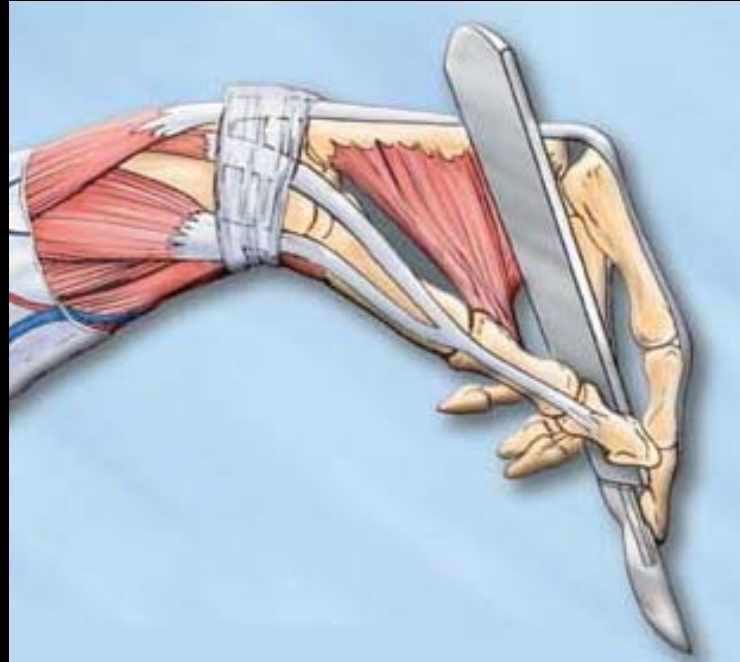


### 3) Nasal Cavity

Lateral nasal nn.

Ant ethmoidal n.





**THANK-YOU**