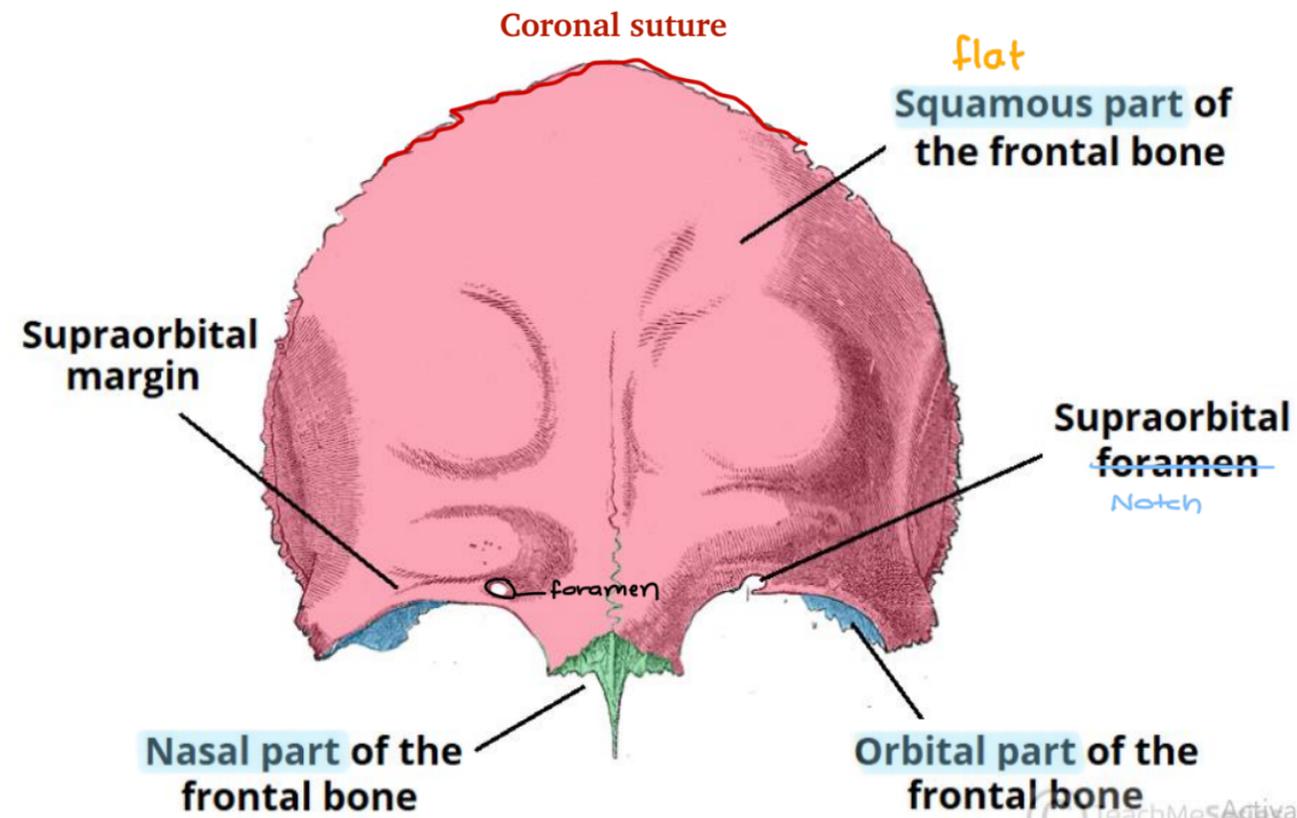
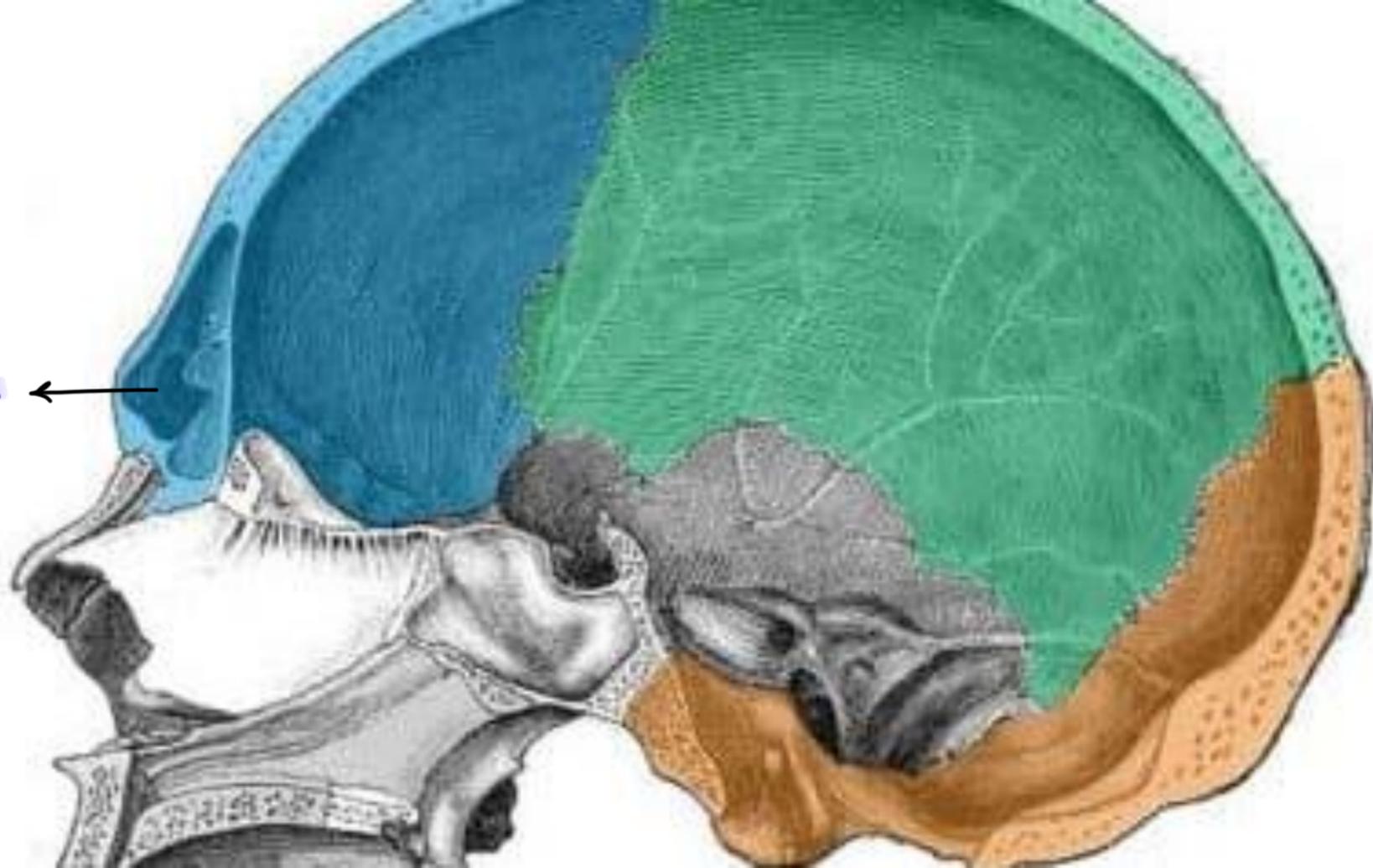
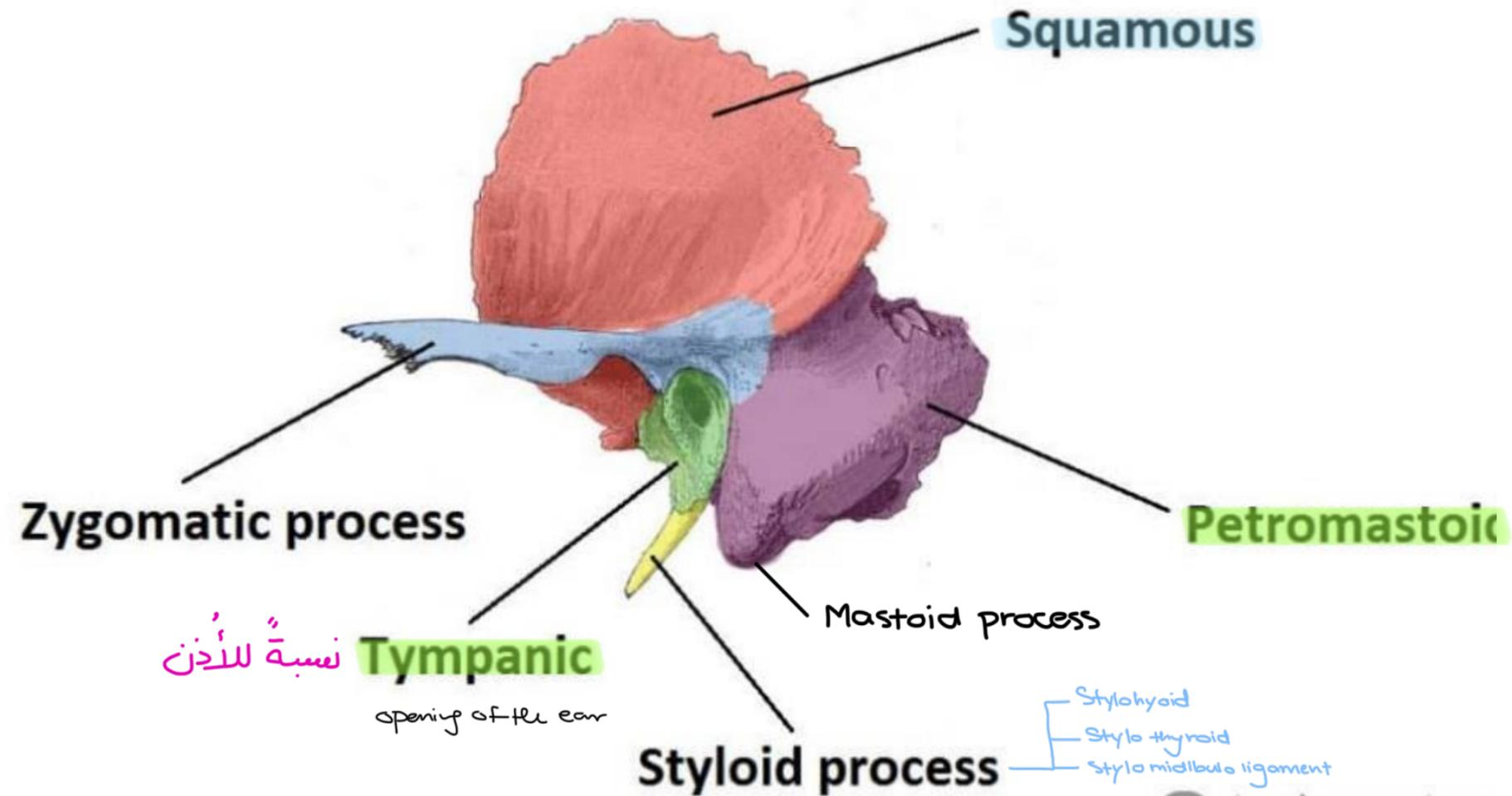


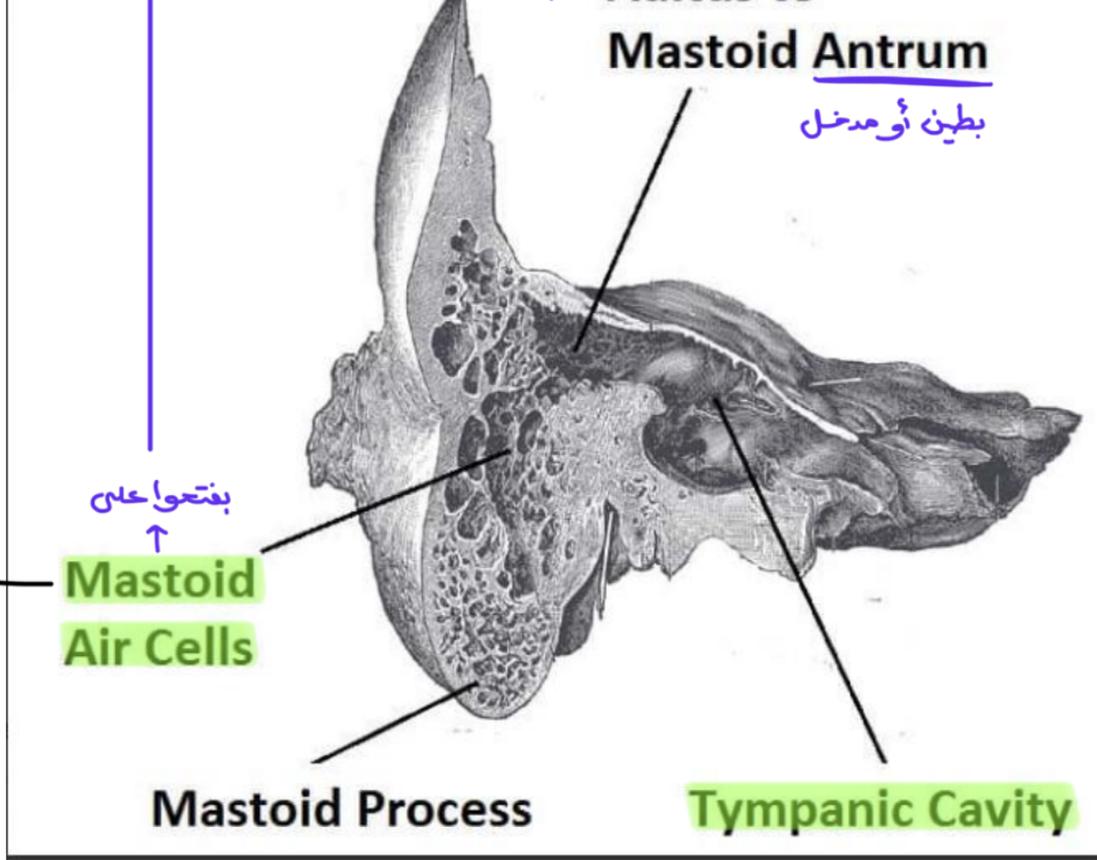
<https://radiopaedia.org/cases/skull-illustrations#image-65721036>



frontal sinus







Aditus to Mastoid Antrum

بطين أو مدخل

بفتحوا على

Mastoid Air Cells

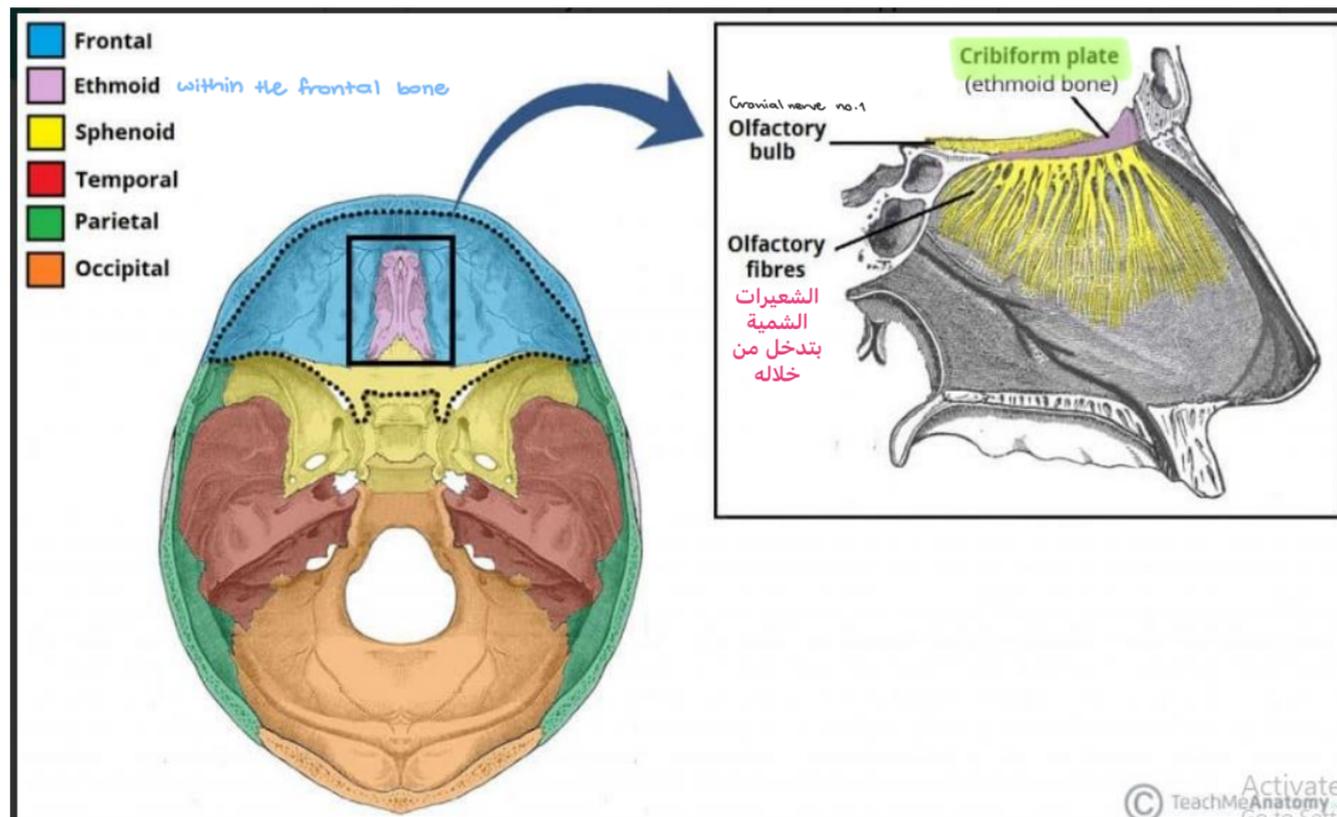
Mastoid Process

Tympanic Cavity

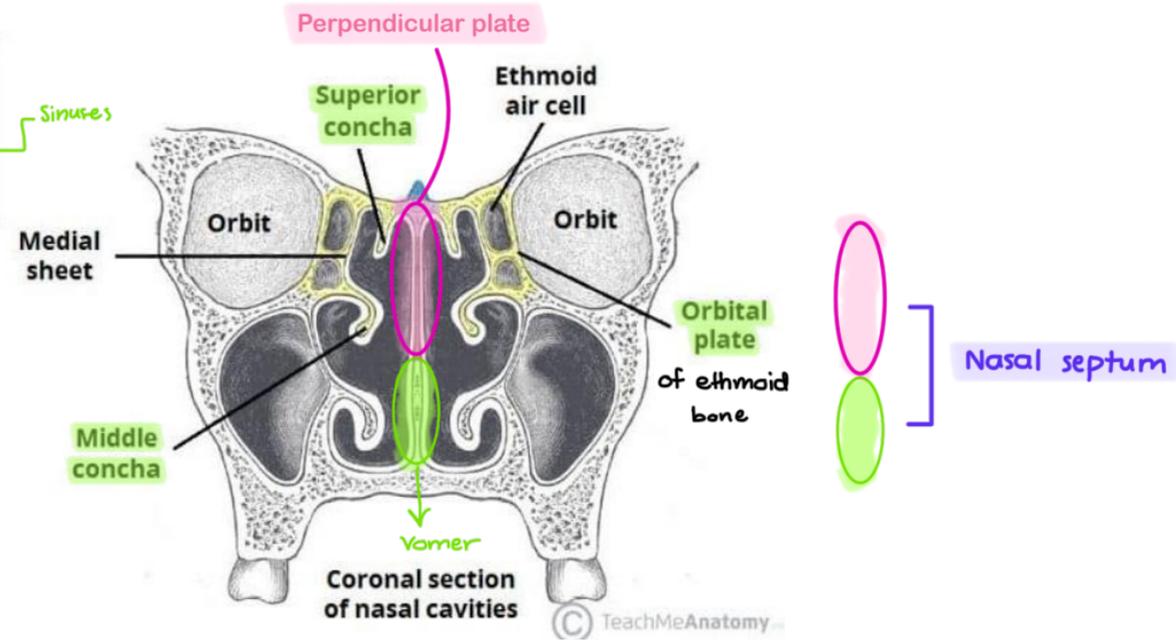
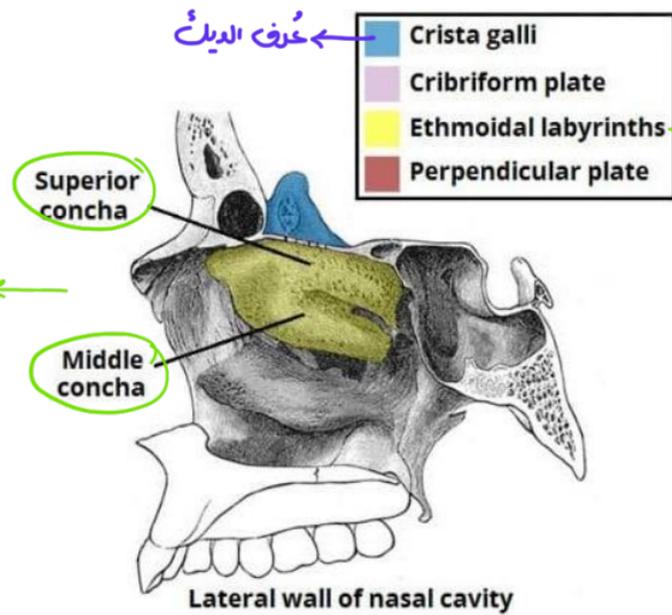
ليش من Sinuses؟

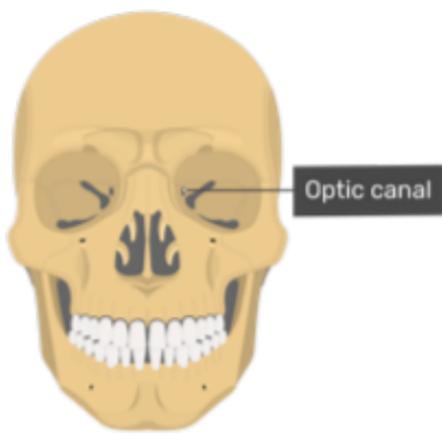
لأنه ال-sinuses بتكون فتحات واسعة، امأ هاي زي الإسفنج

Interior view of the skull



What about the inferior concha?
It's a separated bone





sphenoid bone Middle cranial fossa

الوجيد الذي بالـ lesser wing

Optic canal -> Optic nerve passes through Nerve no. 2

الفراغ بين الـ greater and lesser wings

Superior orbital fissure

Foramen rotundum

Foramen ovale

Foramen spinosum

The Orbit
have a look at slide 26

Lateral plate

pterygoid plates

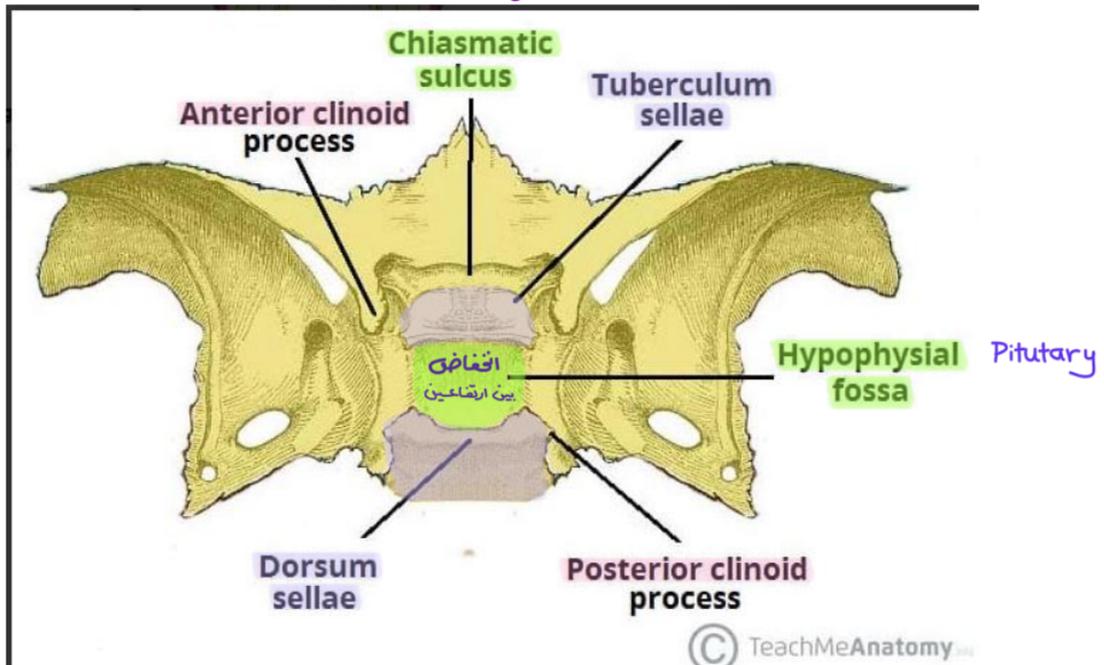
Medial plate

- Body
- Lesser wing
- Greater wing
- Pterygoid process

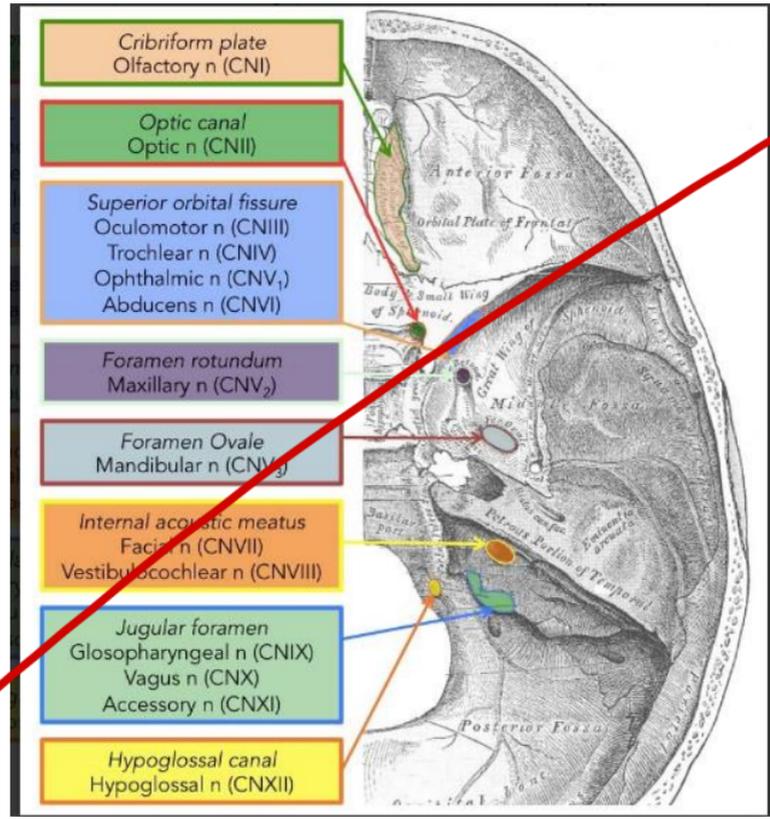


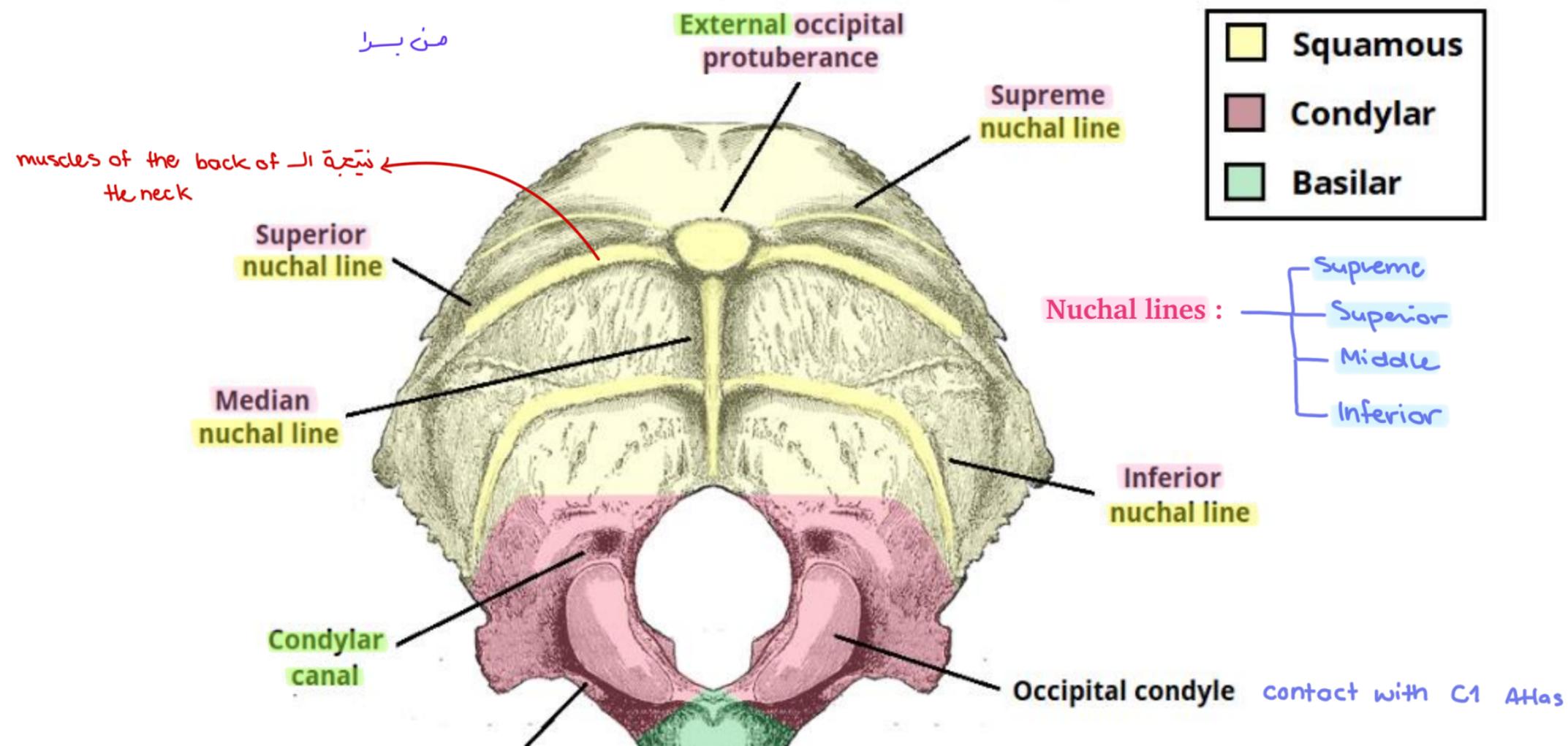
sphenoid bone

منطقة تقاطع ال optic nerves



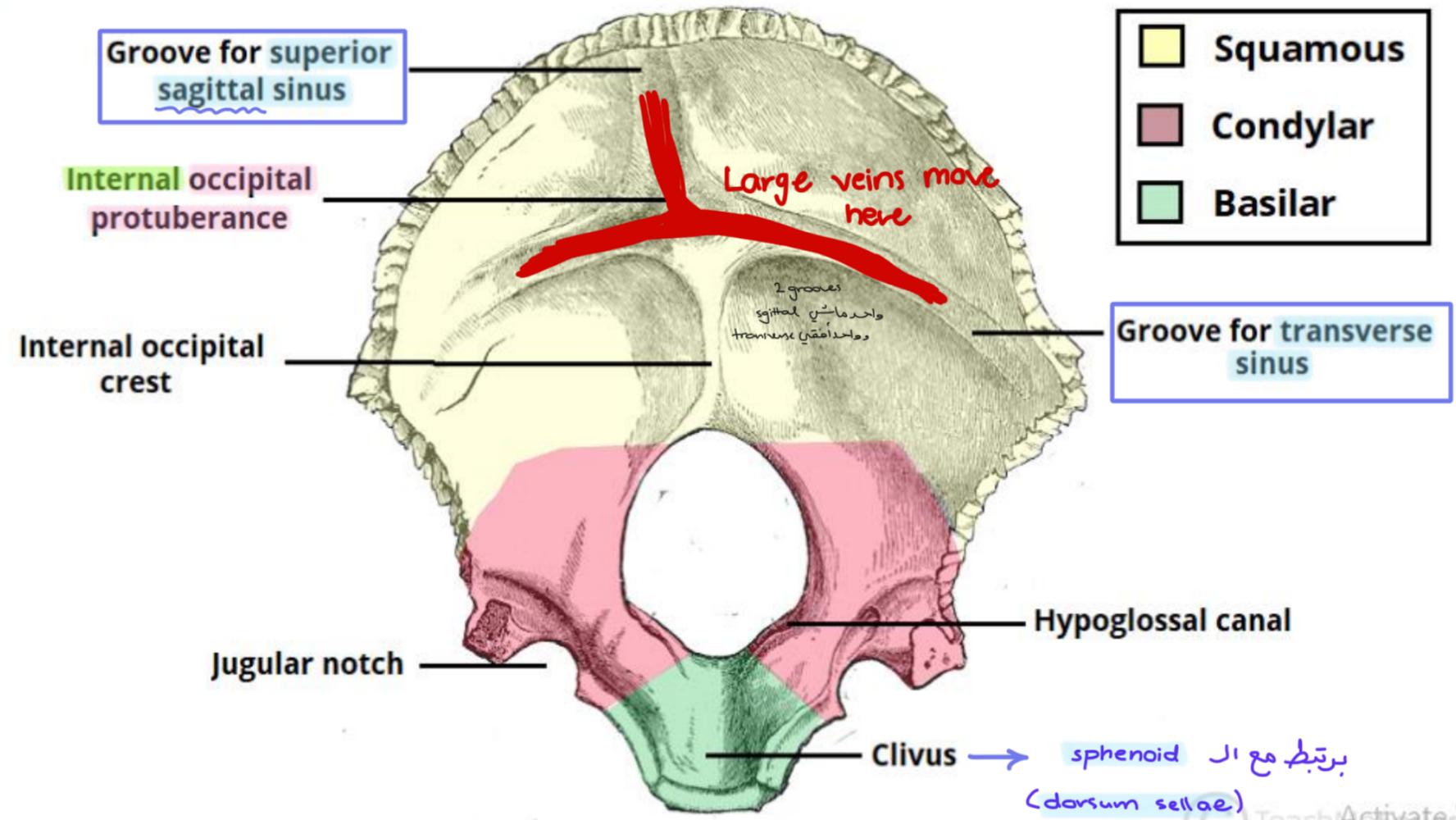
لبعدين





Interior view of occipital

في أماكن بسيهائي لل sinuses
أوردة للـخ



- Squamous
- Condylar
- Basilar

Groove for transverse sinus

Hypoglossal canal

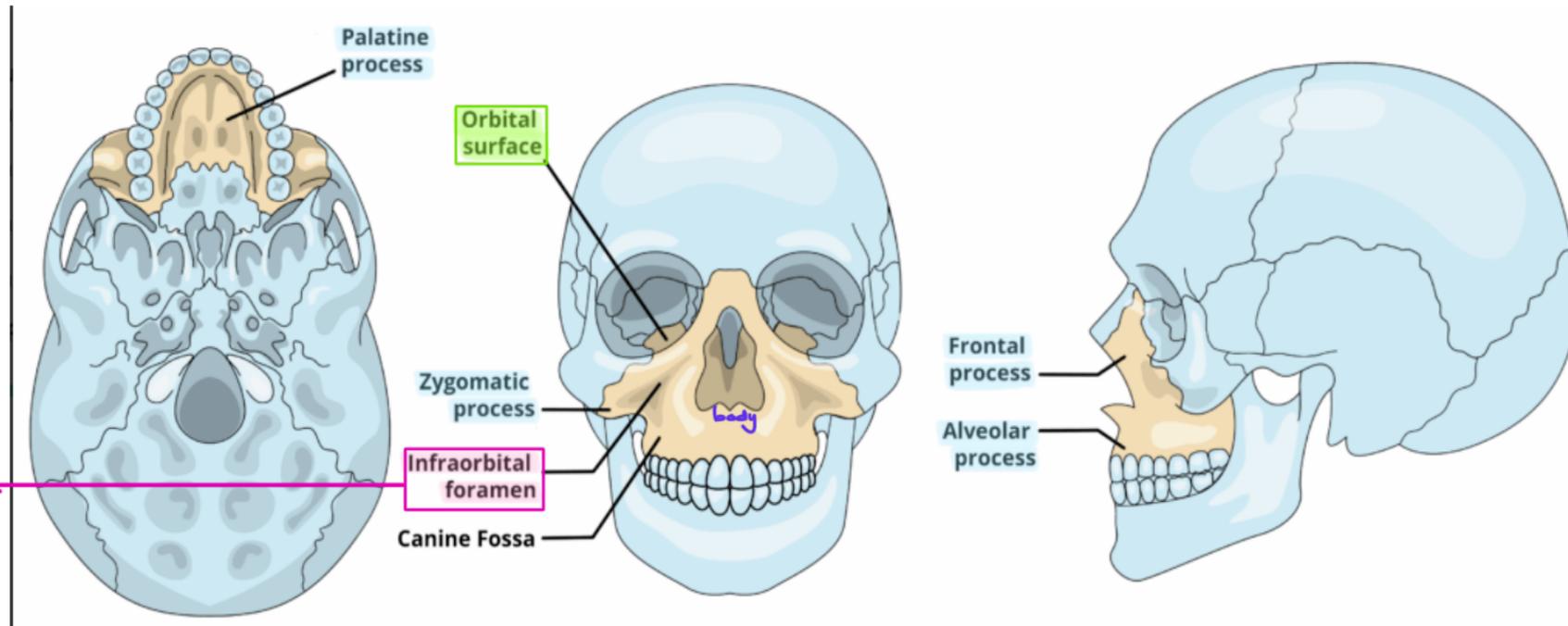
Clivus → sphenoid (dorsum sellae)

→ processes of maxilla

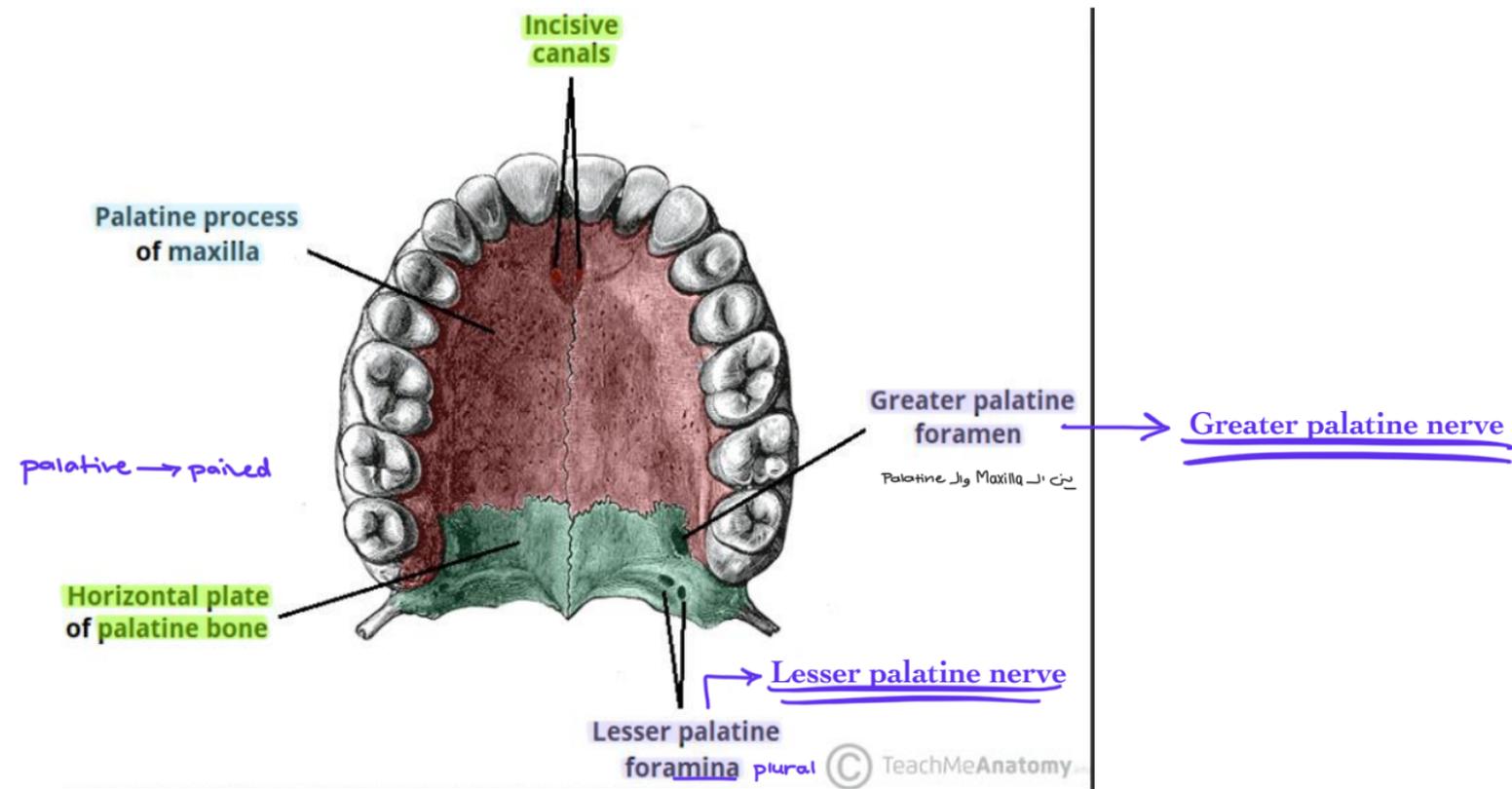
All facial bones are paired except mandible and vomer



على نفس الخط مع الـ orbital one , on the frontal bone



راح يمر منها أعصاب تغذي الـ anterior incisors



Borders of palatine bone (horizontal plate)

L shaped



Posterior border

Nothing

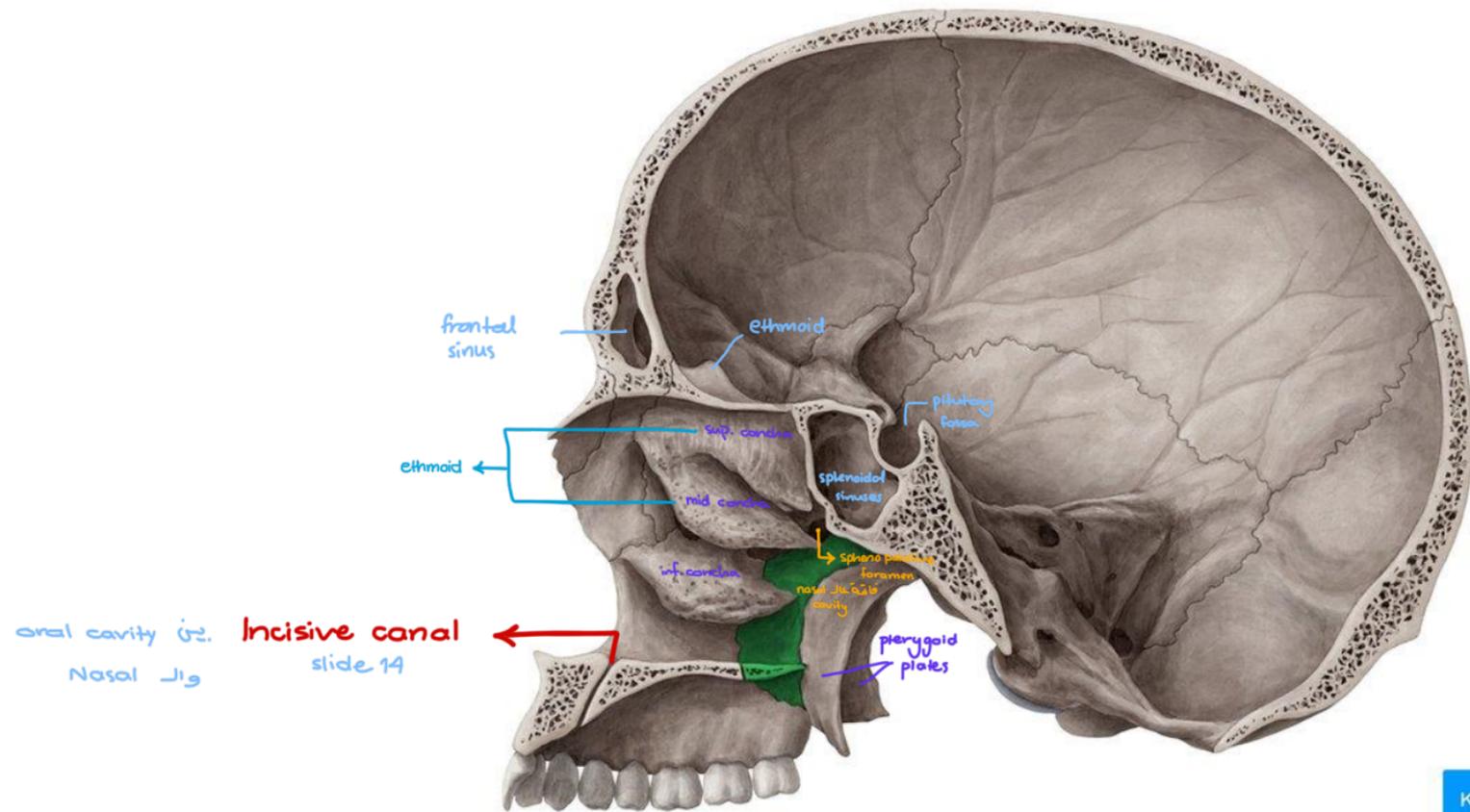
Lateral border

Anterior border

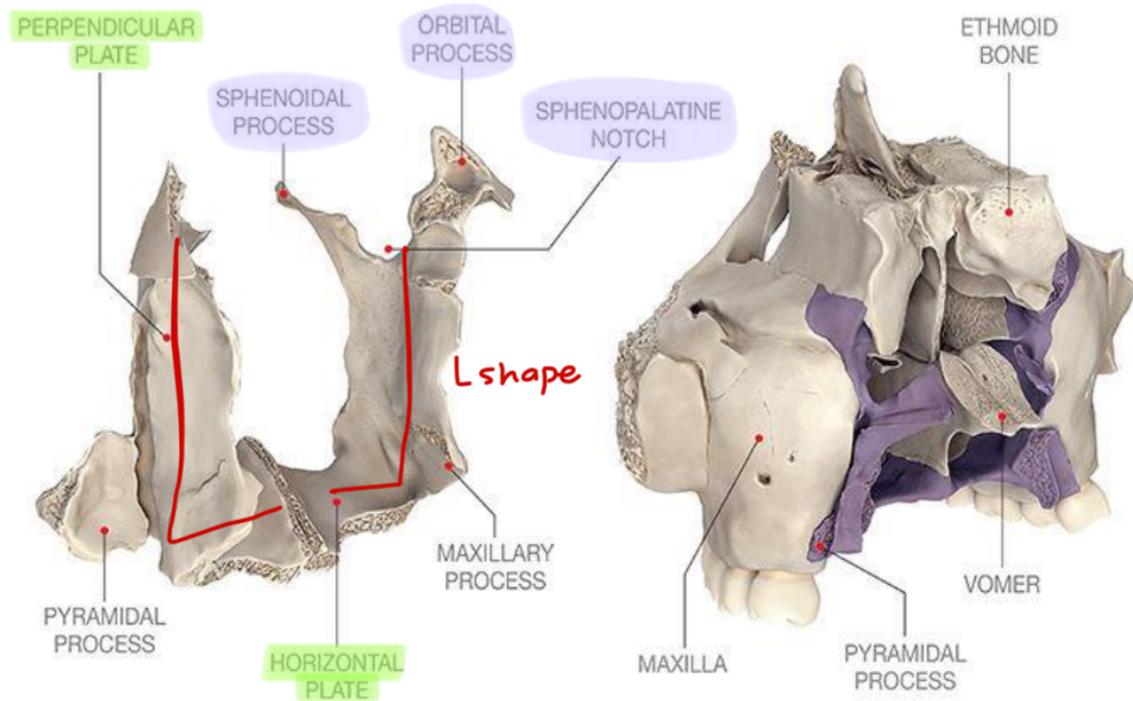
Maxilla

Medial border





PALATINE BONE



HORIZONTAL PLATE

hard palate

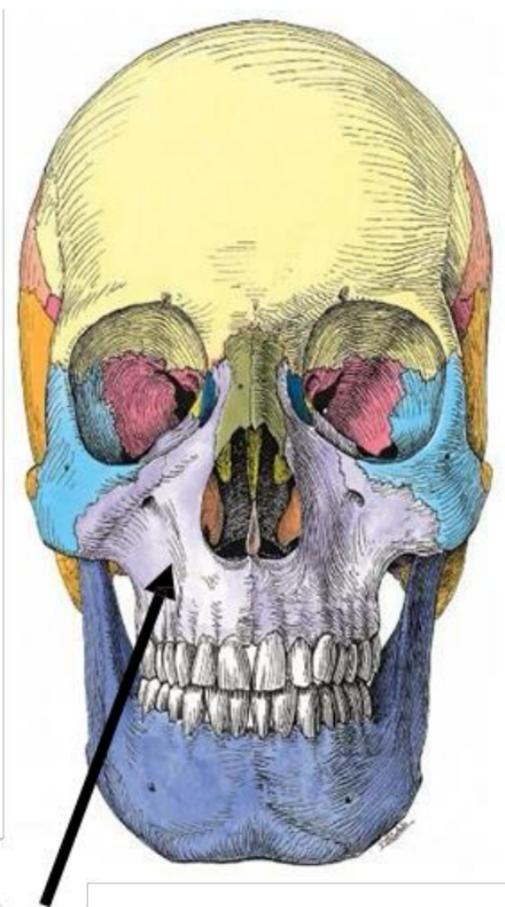
غالبًا maxilla هي
محور الكسر لأنها
جاية بنص الوجه

FRACTURES OF THE BONES OF THE FACIAL SKELETON

Facial Fractures

Fractures of the midface often involve the maxilla, due to its central position and extensive articulations with surrounding bones.

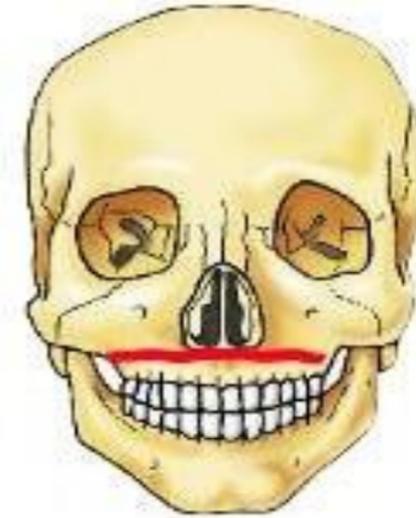
The most widely used system for classifying midfacial fractures is the **Le Fort classification**, which divides them into three main types based on the anatomical pattern of the fracture lines:



maxilla

Le Fort Fractures of the Facial Skeleton

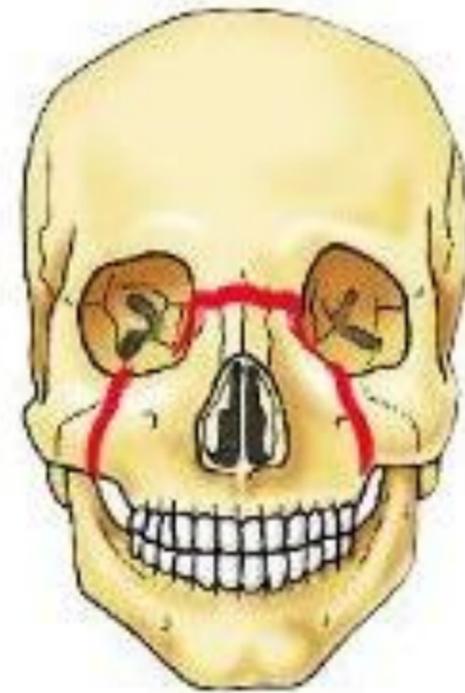
Le Fort I (Horizontal) – Fracture passes above the teeth, separating the alveolar process and palatine process. It involves the lateral wall of the maxillary sinus and nasal septum.



Le Fort I

Le Fort Fractures of the Facial Skeleton

Le Fort II (Pyramidal) – Fracture runs from the nasal bridge through the frontal process, infraorbital margin, and maxillary sinus. It can damage the infraorbital nerve, resulting in sensory loss to the midface.

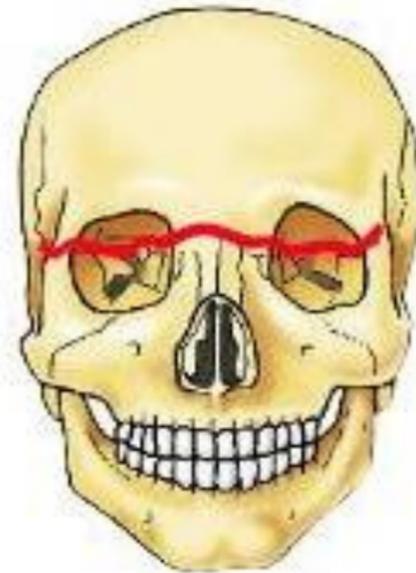


Le Fort II

Le Fort Fractures of the Facial Skeleton

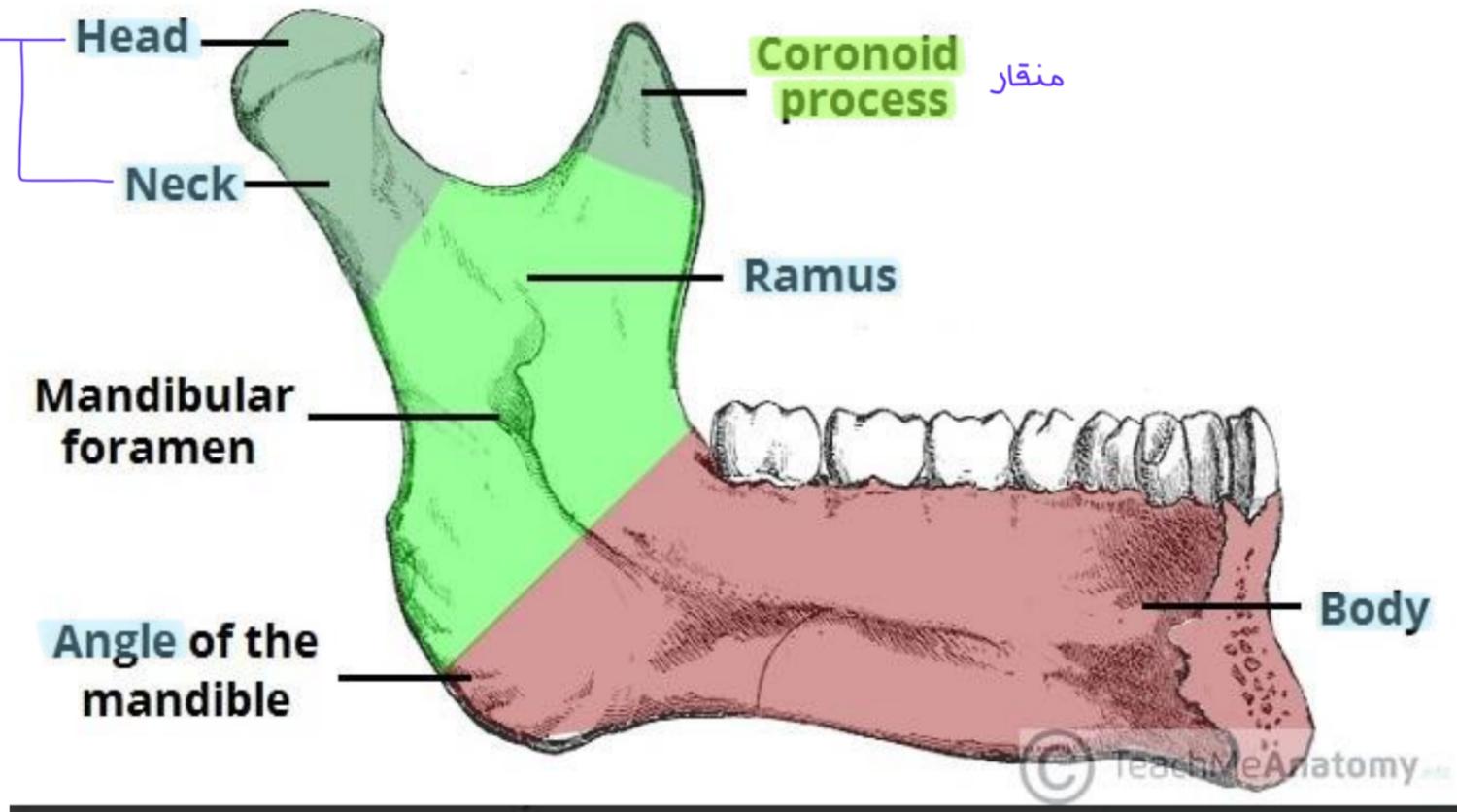
Le Fort III (Craniofacial disjunction) – Fracture separates the midface from the cranial base via the zygomatic process, orbital floor, and nasofrontal suture. It involves the disarticulation of the maxilla from the skull base.

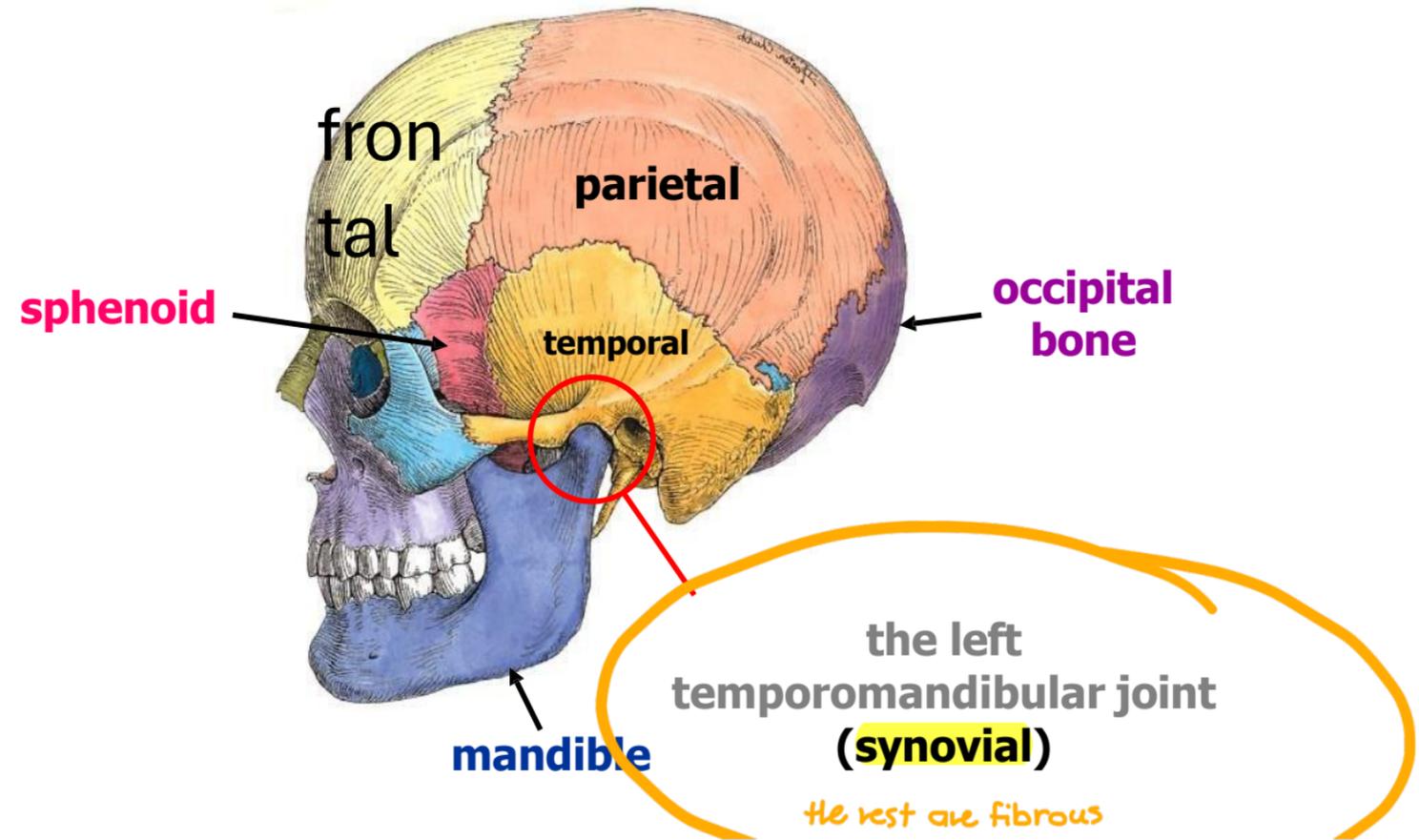
يفصل الوجه عن الفرونتال



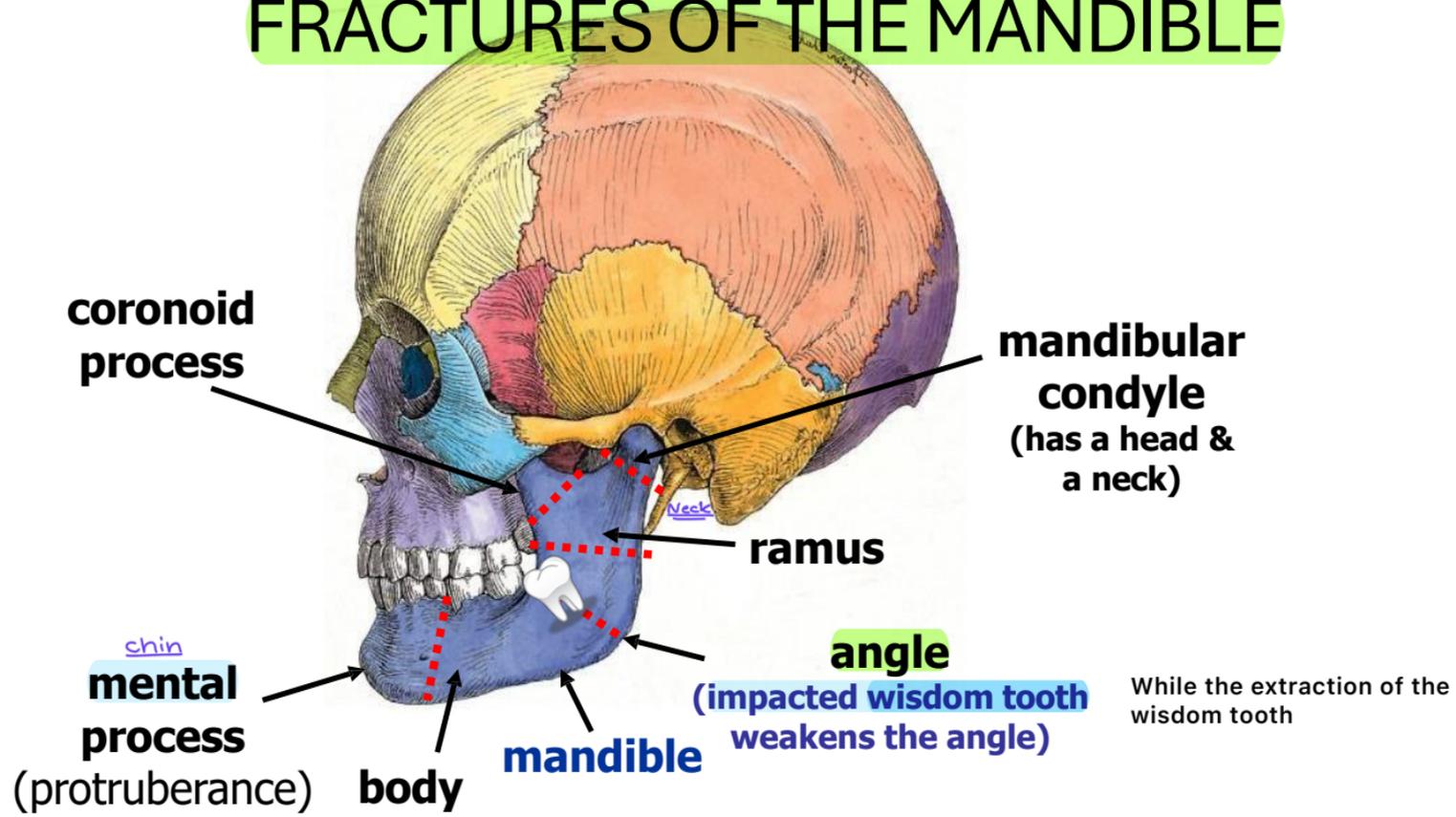
Le Fort III

TMJ with temporal bone





FRACTURES OF THE MANDIBLE

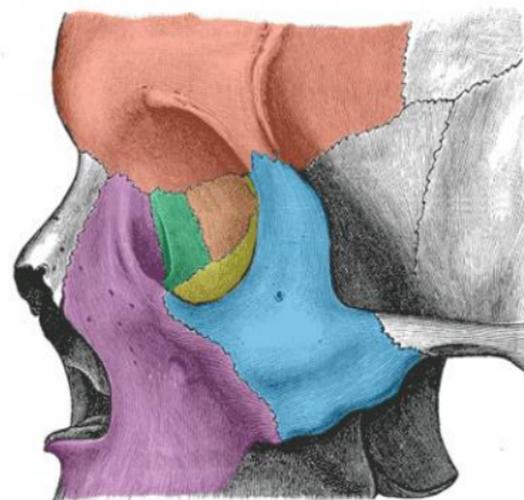
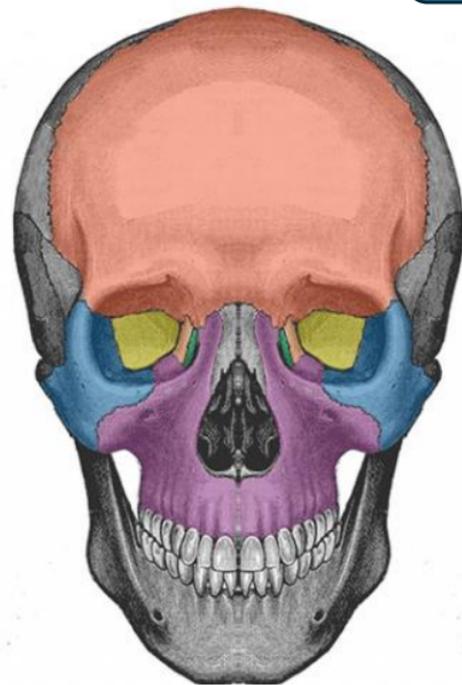


refers to the mental protuberance, also known as the mentum, which is the bony projection of the mandible that forms the chin

While the extraction of the wisdom tooth

BONY ORBIT

Note that the nasal bone isn't included

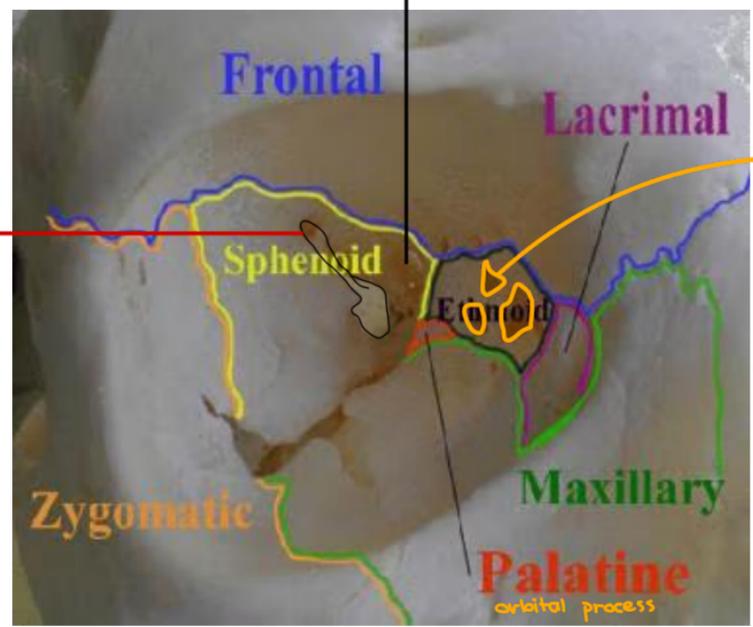


- Frontal
- Sphenoid
- Lacrimal
- Ethmoid
- Maxilla
- Zygomatic

ant → post

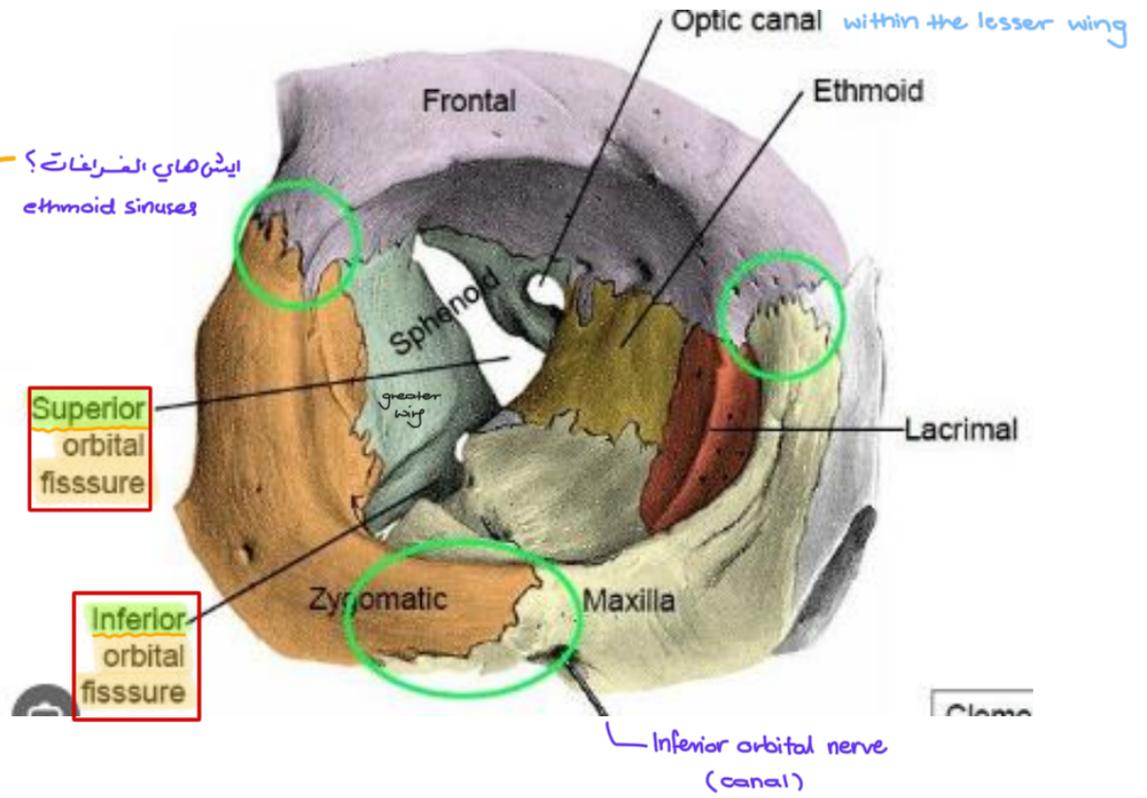
Maxilla → Lacrimal → ethmoid → palatine

How to differentiate the greater wing from the lesser wing?
By the superior orbital fissure between them (the lesser wing is located slightly higher)

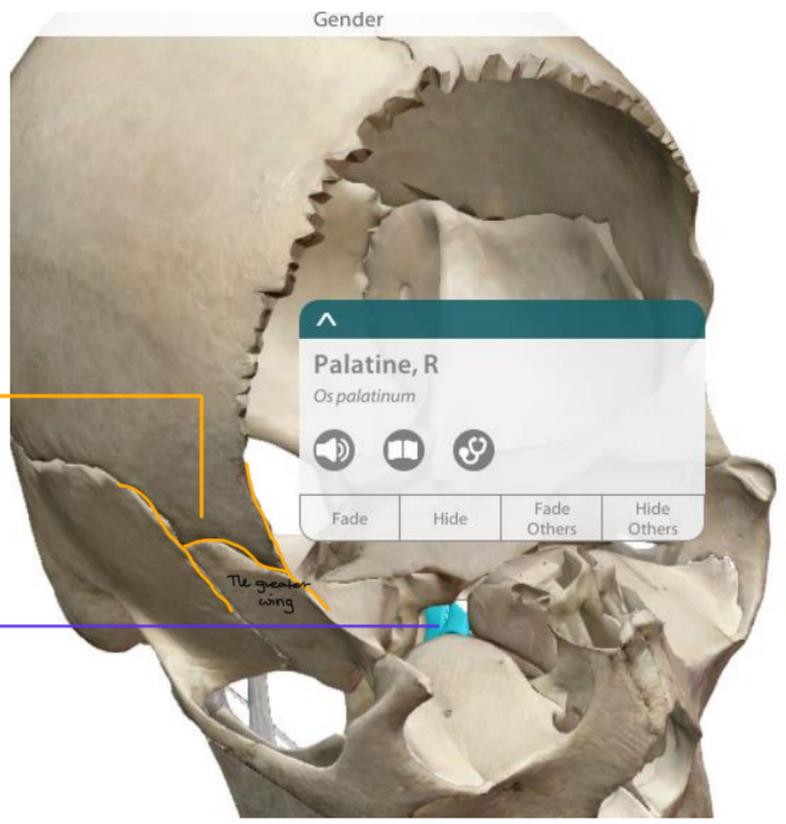


Optic canal within the lesser wing

ايشواي الغرنايات؟
ethmoid sinuses



Clame



Gender

Palatine, R

Os palatinum



Fade

Hide

Fade Others

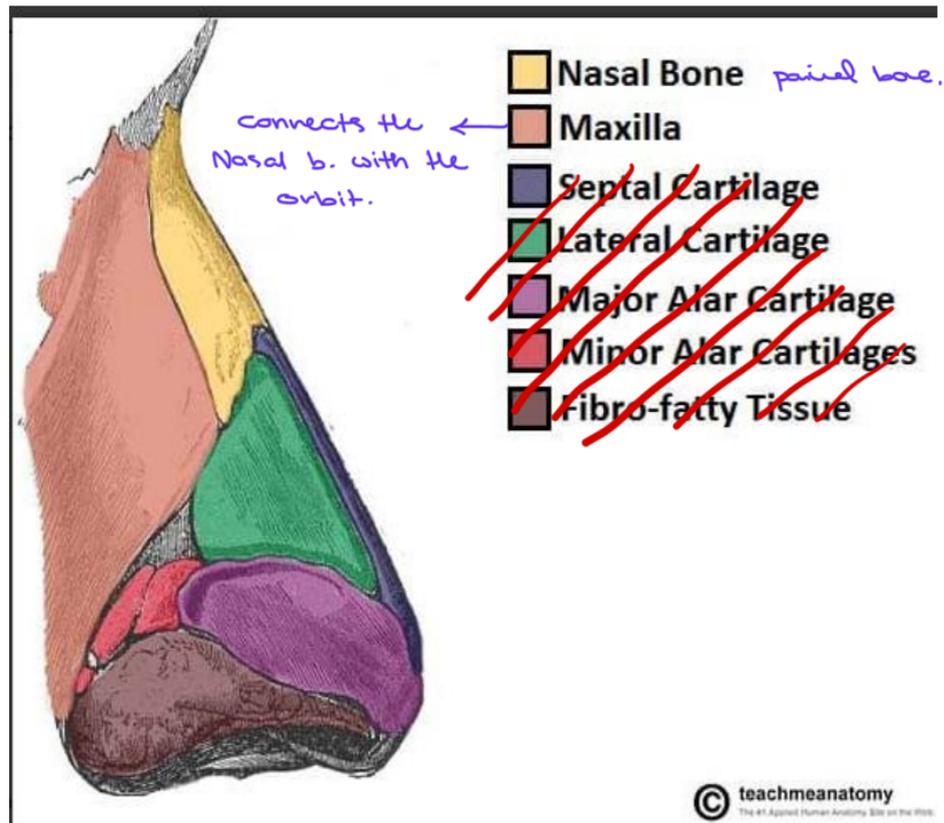
Hide Others

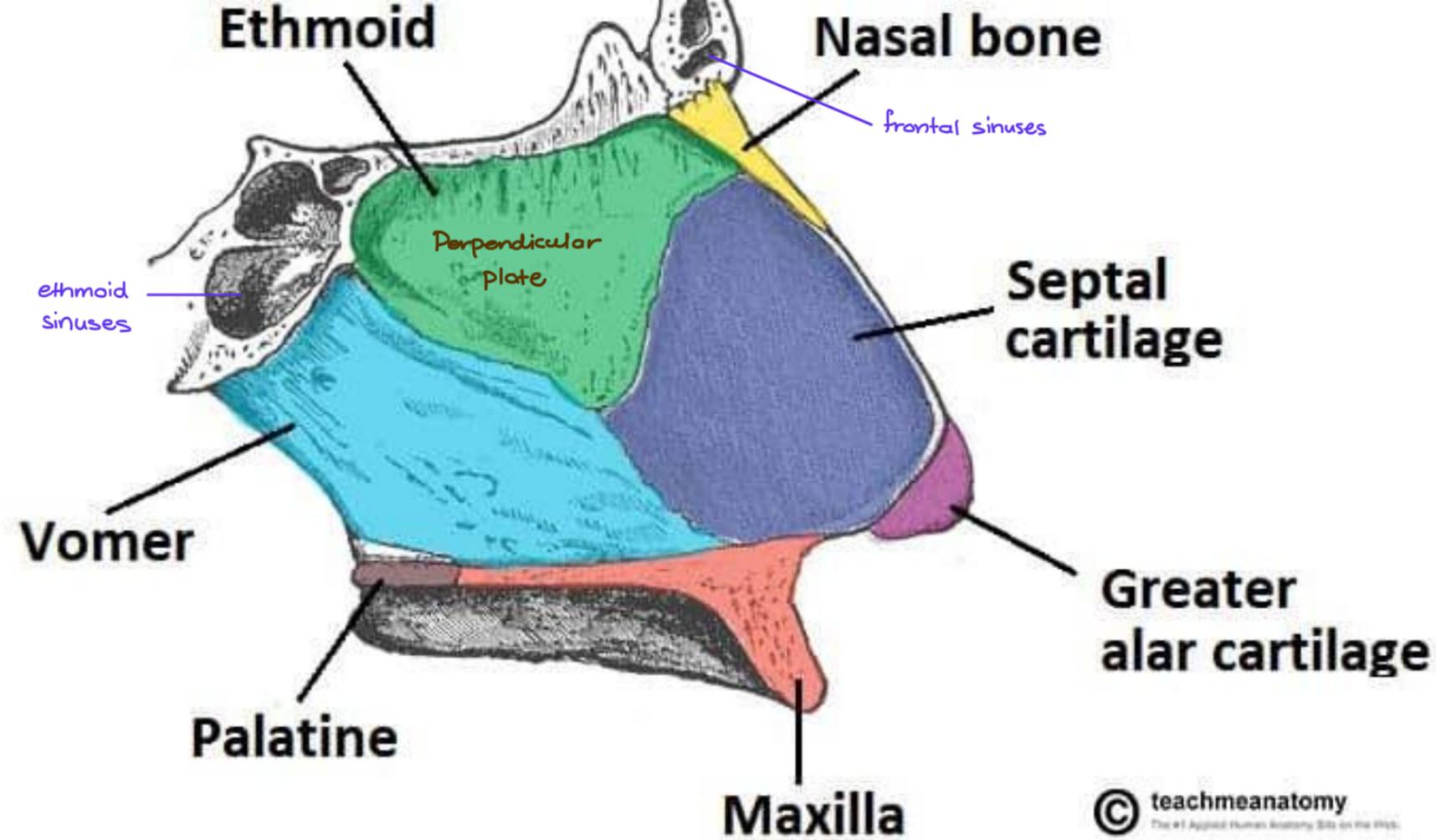
The H-shape suture
[Pterion]

Palatine process
inside the Orbit

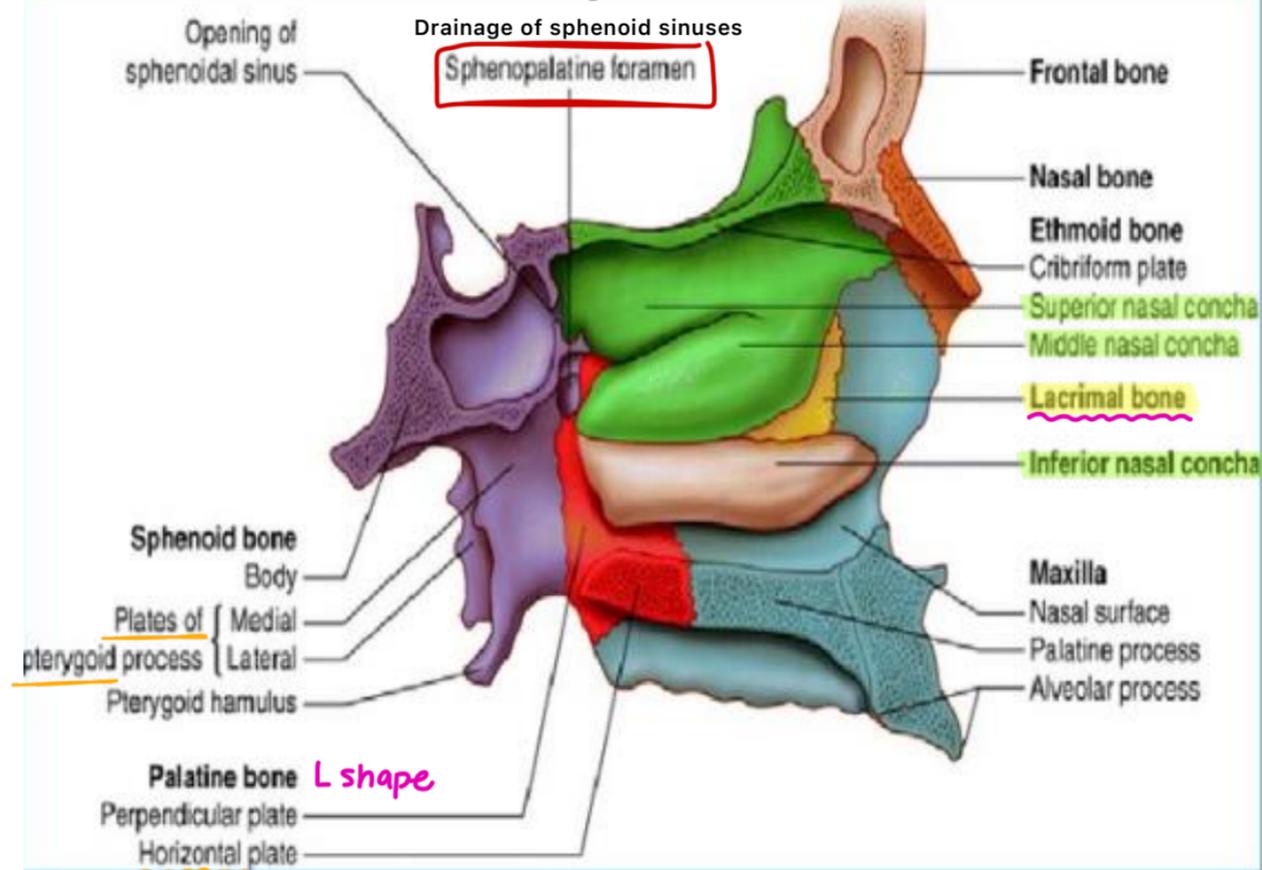
The greater wing

The Nasal Skeleton

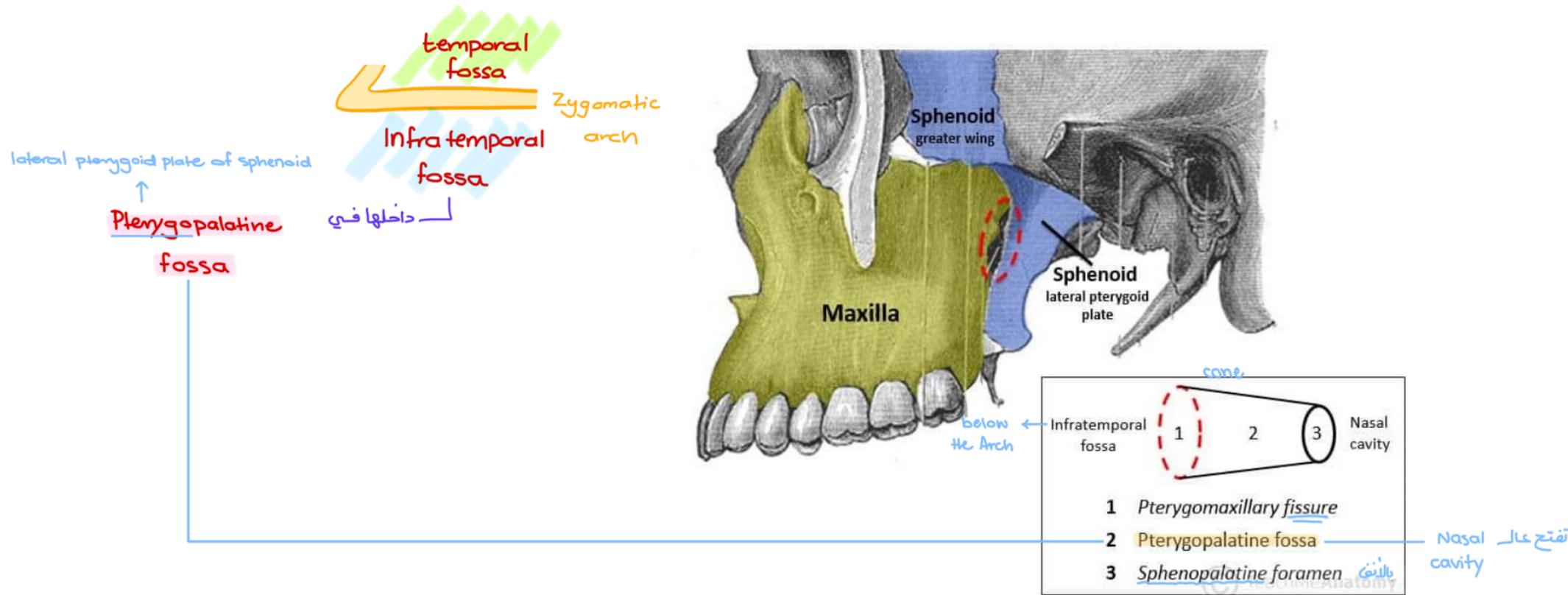




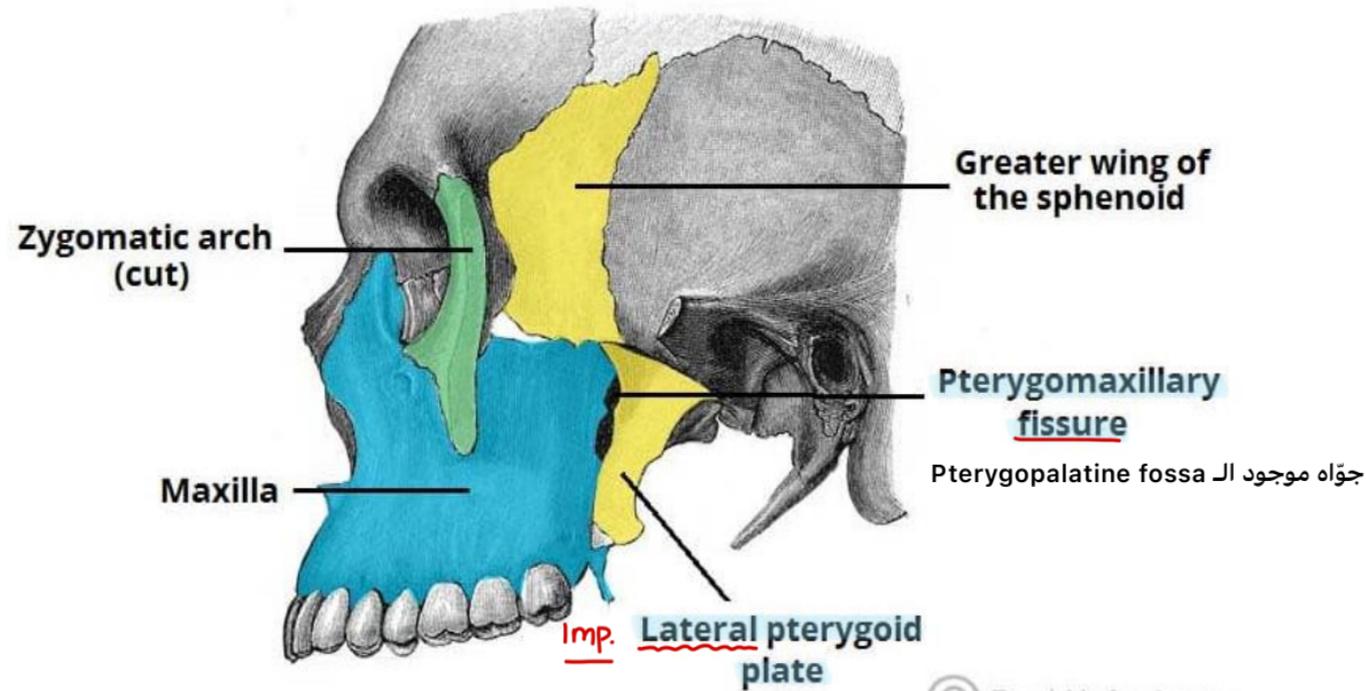
Lateral wall of Nasal Cavity



The Pterygopalatine Fossa



The Infratemporal Fossa



The Mastoid Fossa (MacEwen's Triangle)

← مهمة للعملية

