



# **“Osteología de cabeza, cuello, tronco y miembro torácico”**

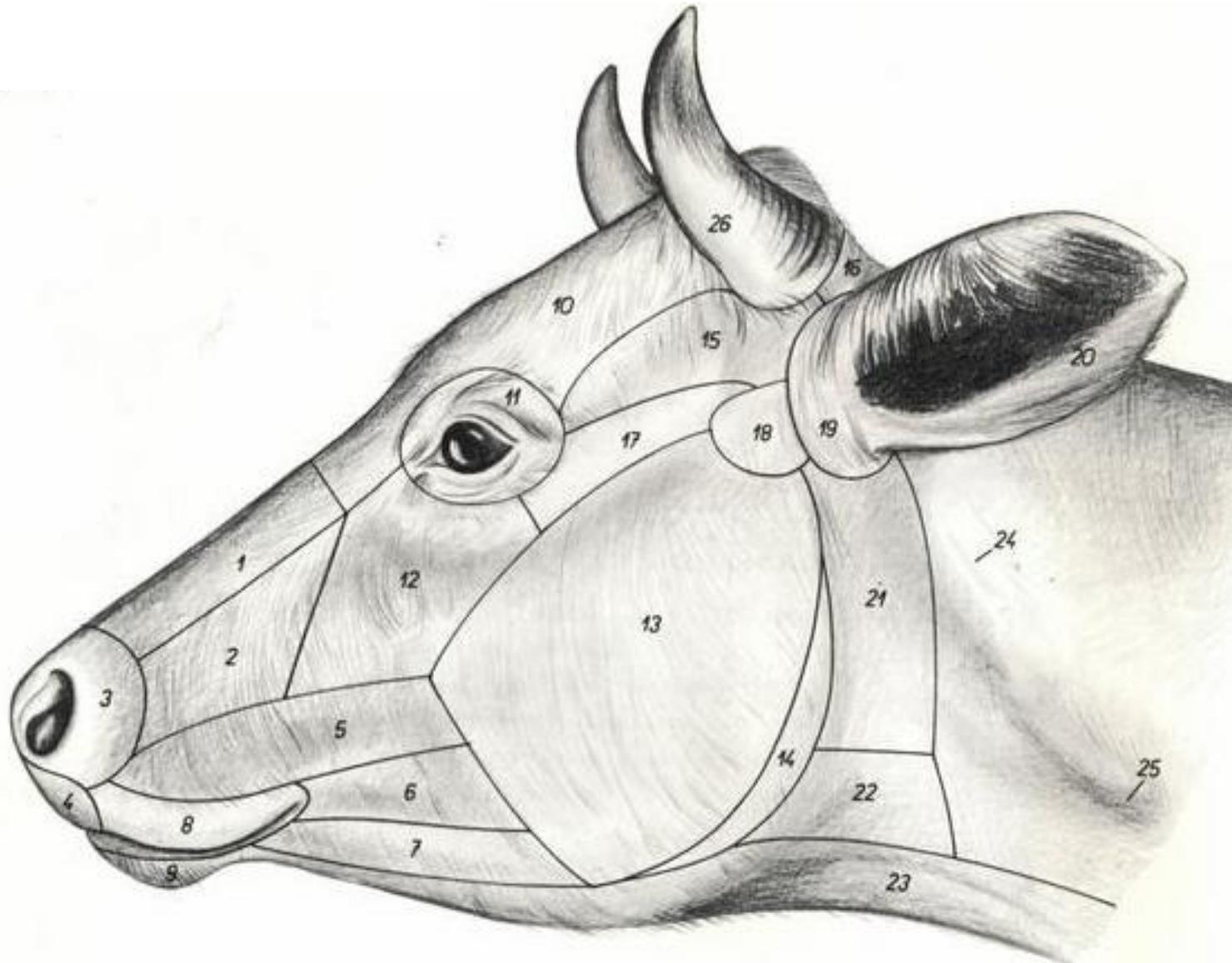
**Cintya Borroni G. MV. Msc**  
**cintyab@gmail.com**

# OSTEOLOGÍA DE CABEZA



[dreamstime.com](https://www.dreamstime.com)

# Topografía



- 1.–3. *regio nasalis* – nasal region
1. *regio dorsalis nasi* – dorsal region of nose (bridge of nose)
2. *regio lateralis nasi* – lateral region of nose
3. *regio naris* – region of nostril
- 4., 8. *regio oralis* – oral region
4. *planum nasolabiale* – nasolabial surface
5. *regio maxillaris* – maxillary region
6. *regio buccalis* – region of cheek
7. *regio mandibularis* – mandibular region
8. *regio labialis maxillaris et labialis mandibularis* – region of upper and lower lips
9. *regio mentalis* – region of chin
10. *regio frontalis* – frontal region (forehead)
11. *regio orbitalis (regio palpebralis superior et palpebralis inferior)* – orbital region (region of upper and lower eyelids)
12. *regio infraorbitalis* – infraorbital region
13. *regio masseterica* – masseteric region
14. *margo mandibular* – margin of mandible
15. *regio temporalis* – temporal region (temple)
16. *regio parietalis* – parietal region (poll)
17. *regio zygomatica* – zygomatic region
18. *regio articulationis temporomandibularis* – region of temporomandibular articulation
- 19., 20. *regio auricularis* – region of external ear
20. *auricula* – external ear
21. *regio parotidea* – parotid region
- 22., 23. *regio colli ventralis* – ventral region of neck
22. *regio laryngea* – laryngeal region
23. *plicae (plica ventralis colli)* – ventral fold of neck
24. *processus transversus atlantis* – transverse process of atlas
25. *sulcus jugularis* – jugular sulcus
26. *cornu* – horn

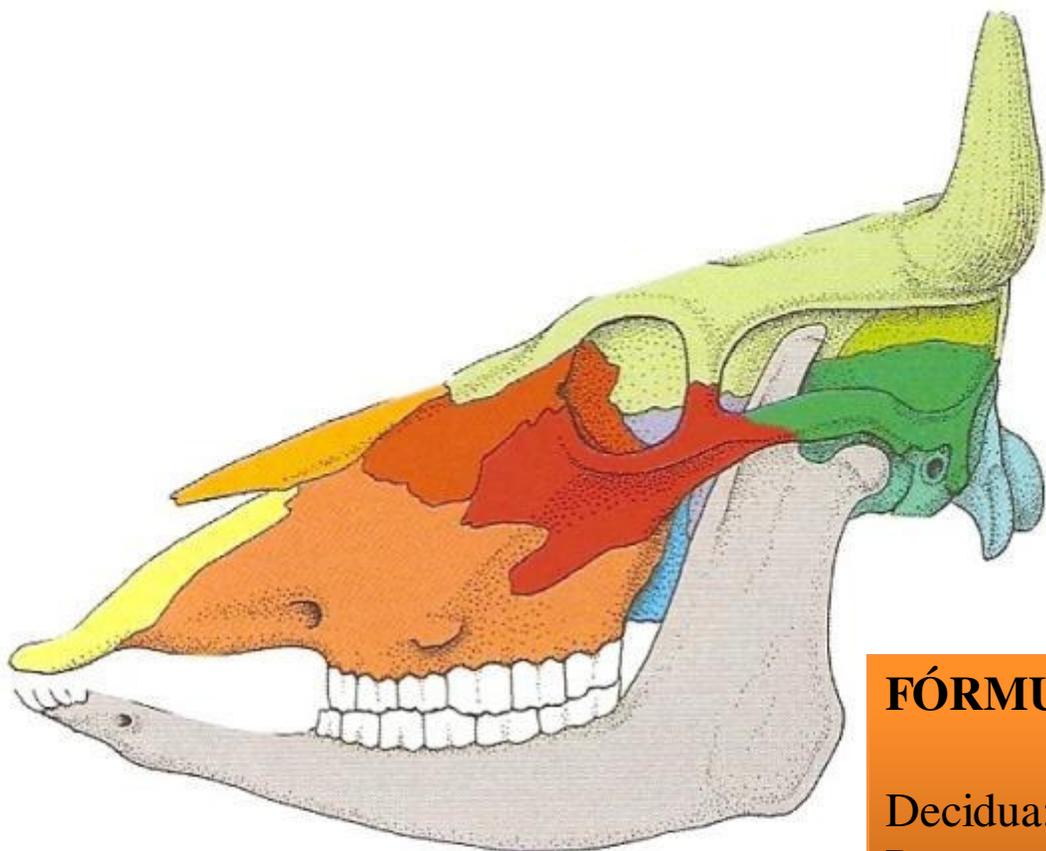
# Osteología de cabeza

## HUESOS DEL CRÁNEO

- Occipital
- Parietal
- Temporal
- Frontal
- Pterigoideo
- Etmoides
- Vómer
- Esfenoides
  - Preesfenoides
  - Basiesfenoides

## HUESOS DE LA CARA

- Maxilar
- Mandíbula
- Nasal
- Concha nasal ventral
- Lagrimal
- Incisivo
- Palatino
- Cigomático



A

- Hueso incisivo
- Hueso nasal
- Maxilar
- Hueso lagrimal

- Hueso cigomático
- Hueso frontal
- Hueso parietal
- Hueso interparietal

## FÓRMULA DENTAL BOVINO

Decidua: 2 ( I 0/4; C 0/0; PM 3/3)= 20

Permanente: 2 ( I 0/4; C 0/0; PM 3/3; M 3/3)= 32

Permanente: 2 ( I 0/4; C 0/0; PM 3/3; M 3/3)= 32

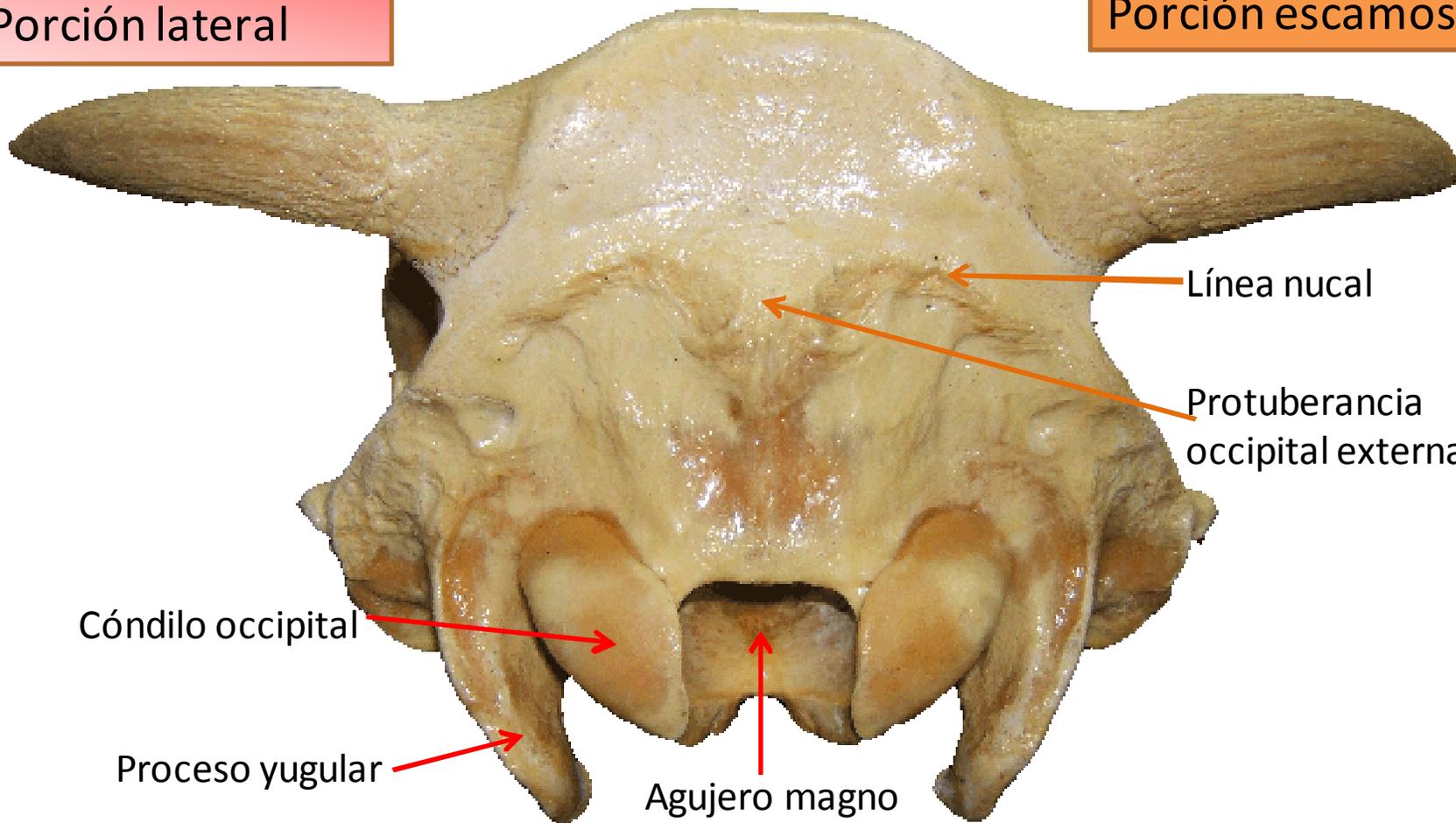
Decidua: 2 ( I 0/4; C 0/0; PM 3/3)= 20

# Huesos del cráneo

## Occipital

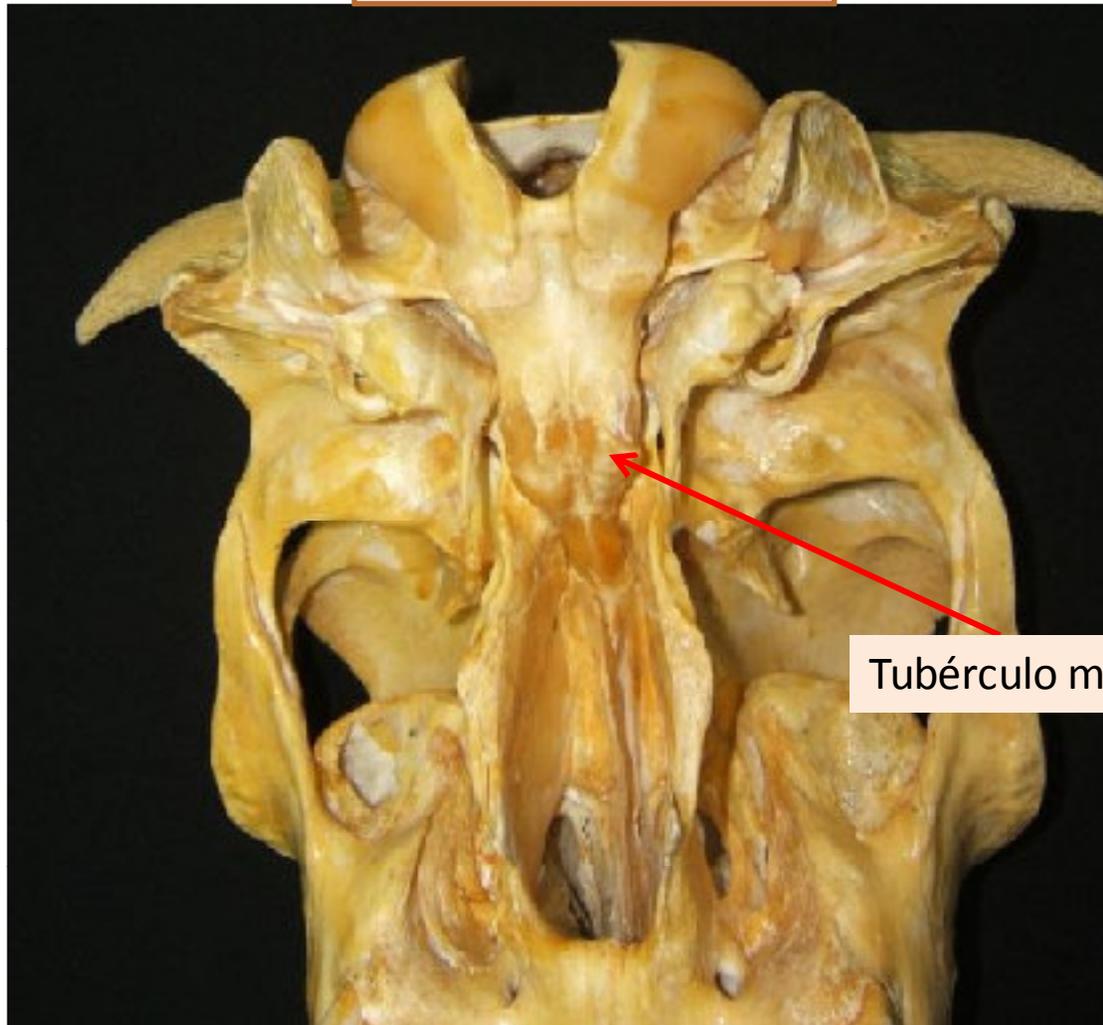
Porción lateral

Porción escamosa



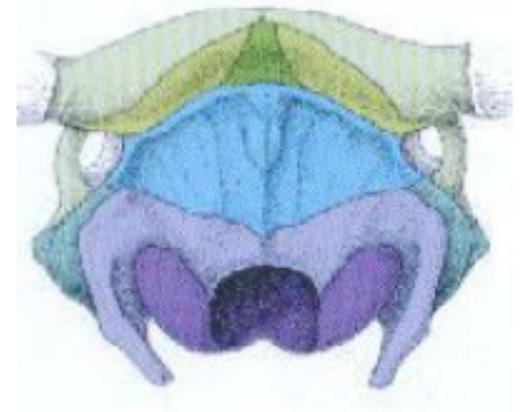
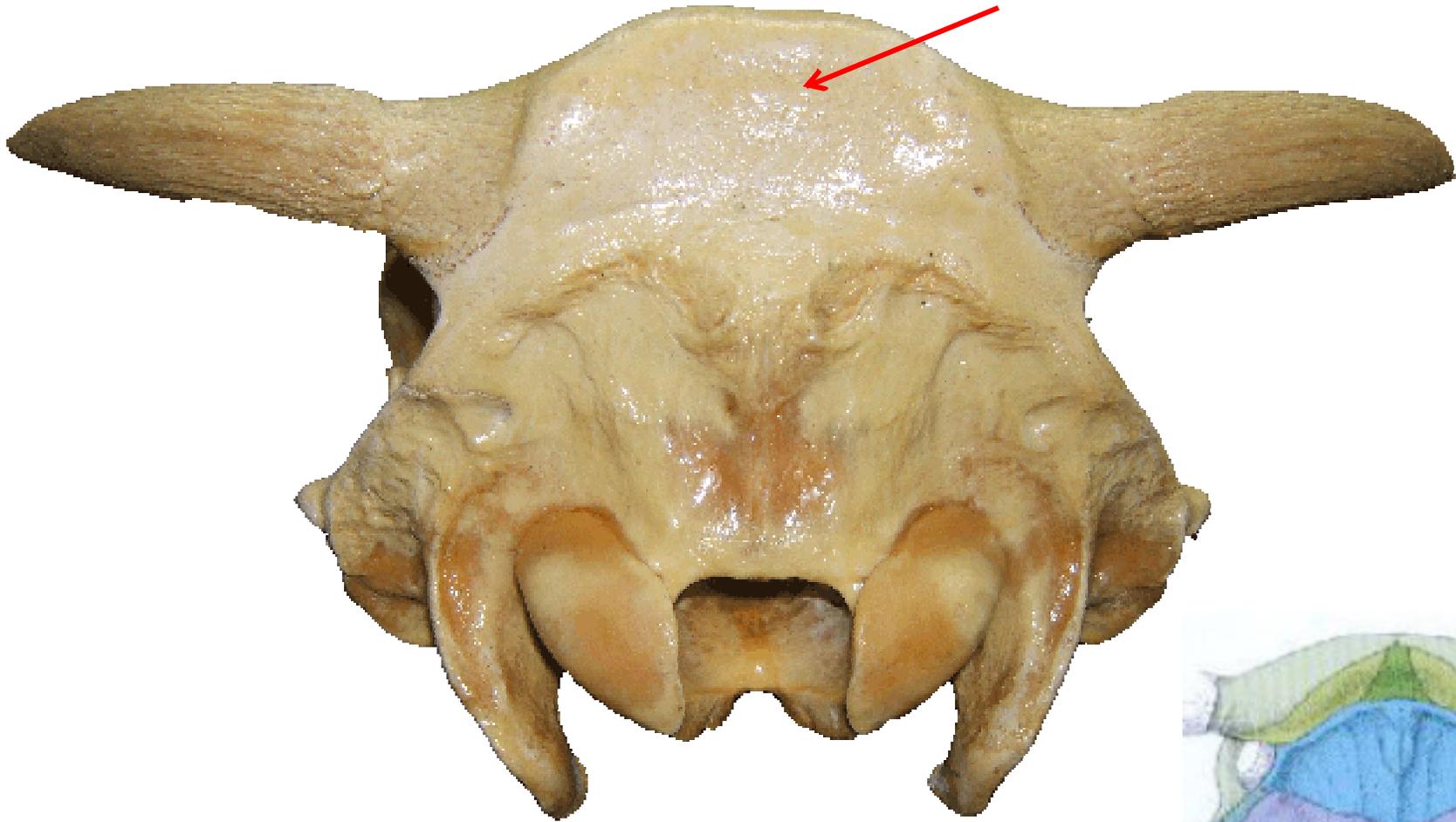
# Occipital

Porción basilar



Tubérculo muscular

# Parietal

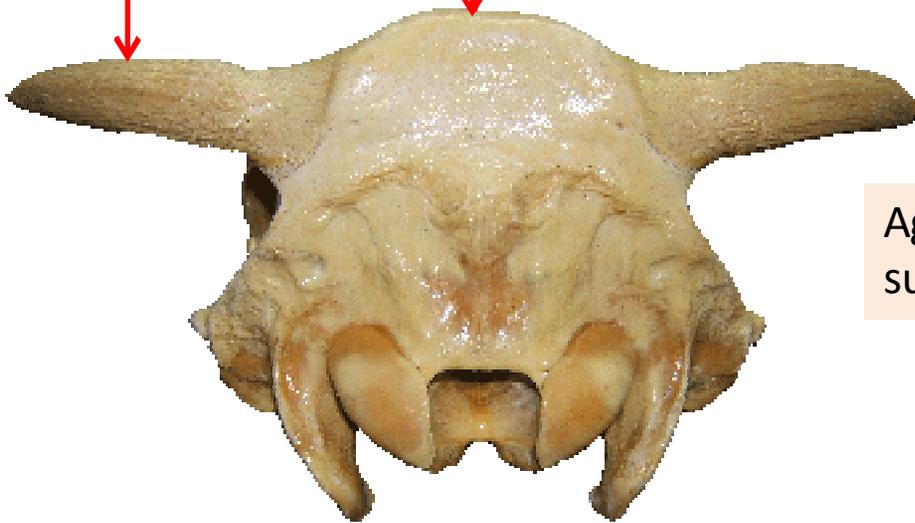


# Frontal

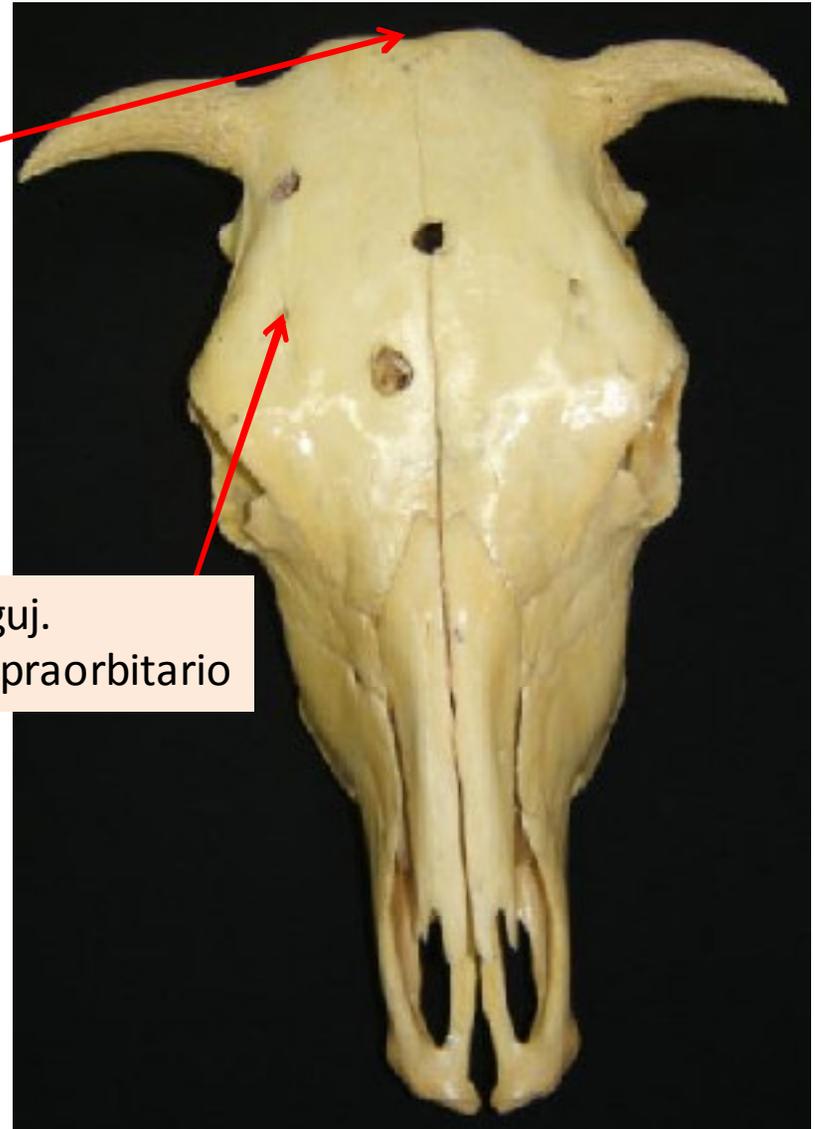
SENO FRONTAL

Proceso  
cornual

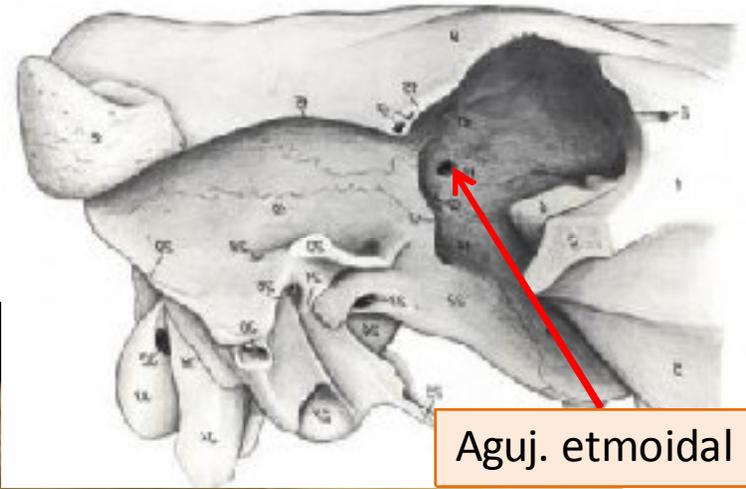
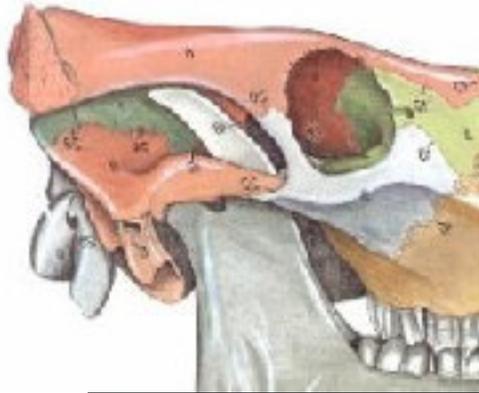
Protuberancia  
intercornual



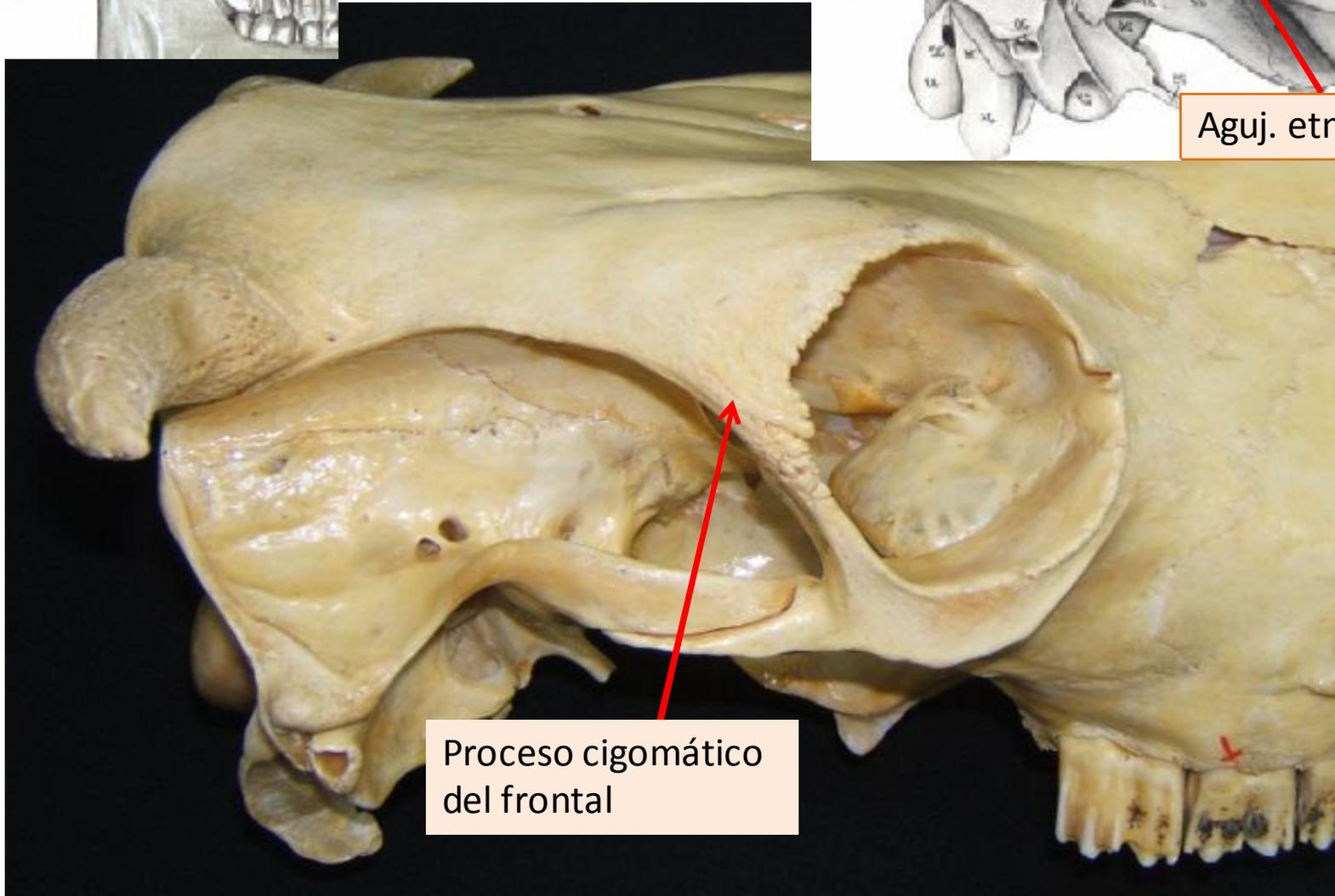
Aguj.  
supraorbitario



# Frontal



Aguj. etmoidal



Proceso cigomático del frontal

# Temporal

Porción escamosa

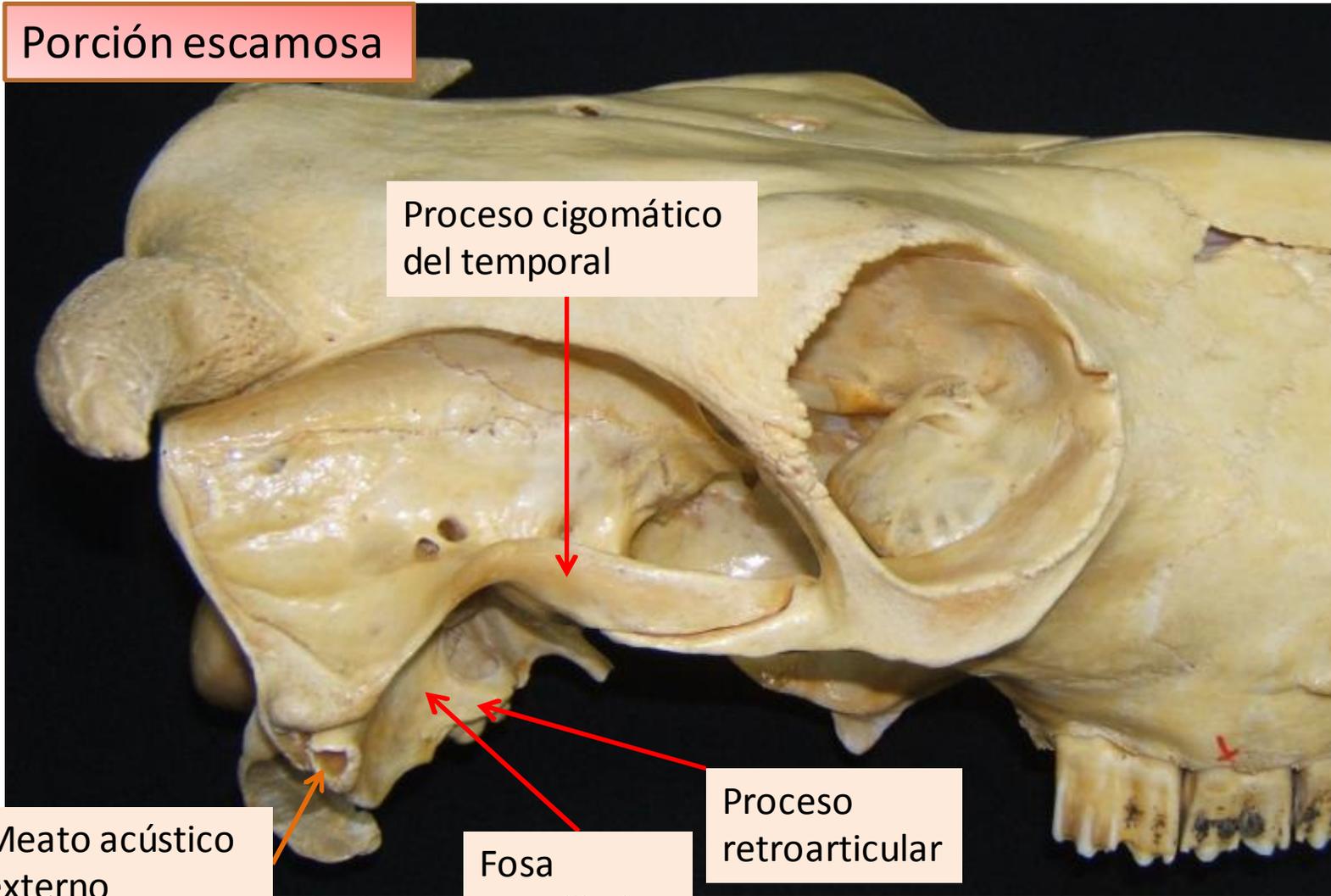
Proceso cigomático  
del temporal

Meato acústico  
externo

Porción timpánica

Fosa  
mandibular  
(ATM)

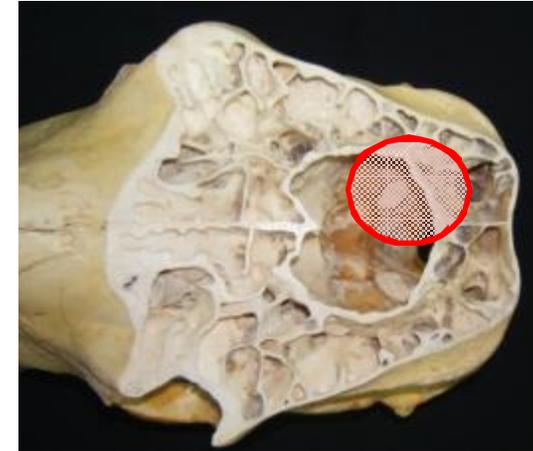
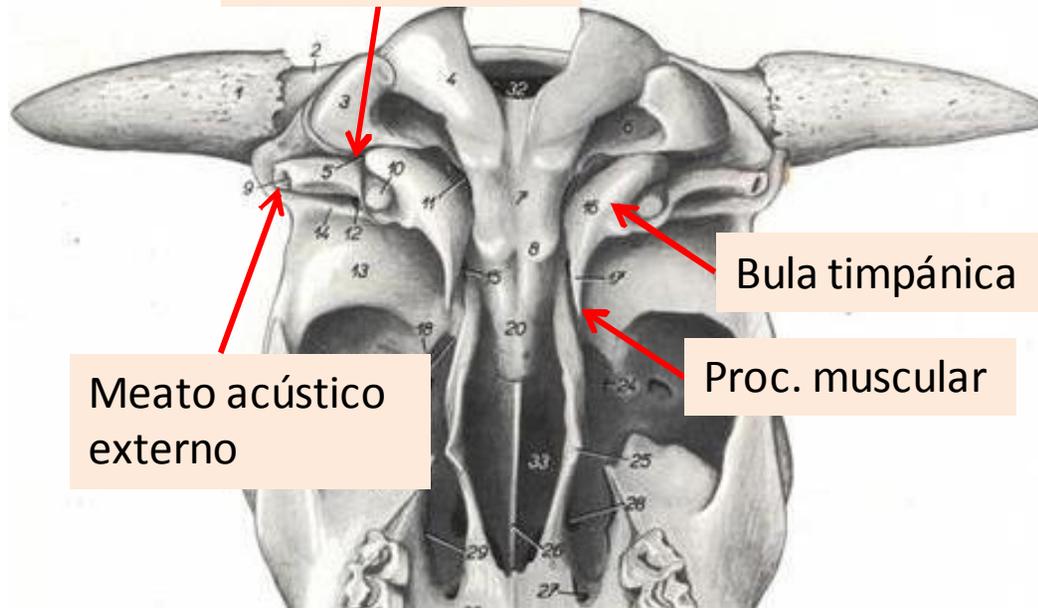
Proceso  
retroarticular



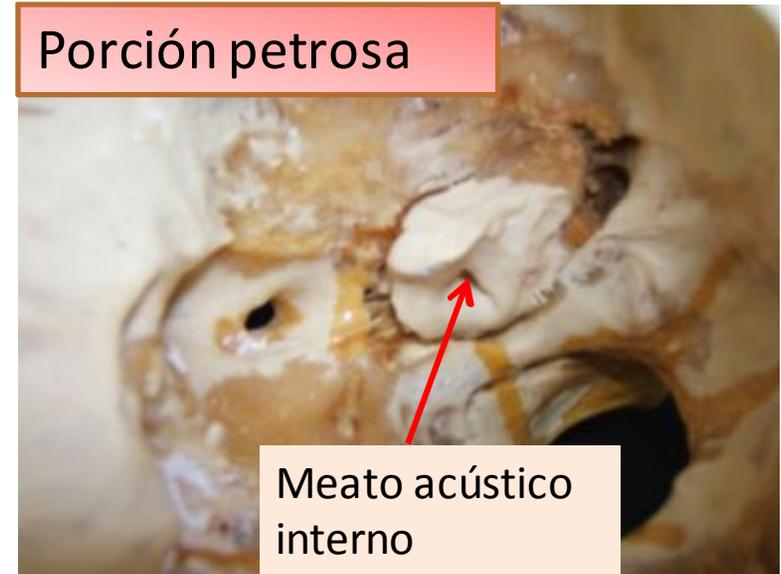
# Temporal

Porción timpánica

Aguj.  
estilomastoídeo



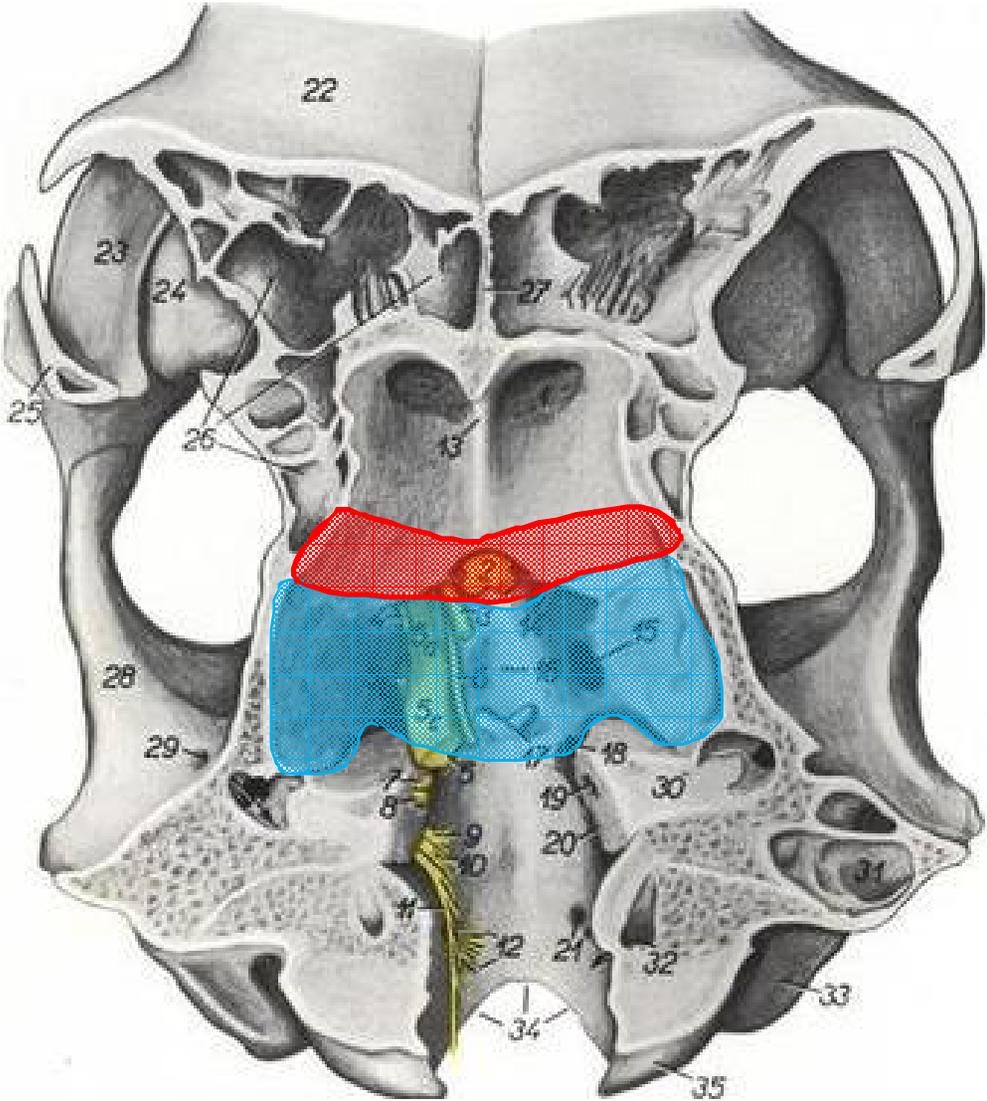
Porción petrosa



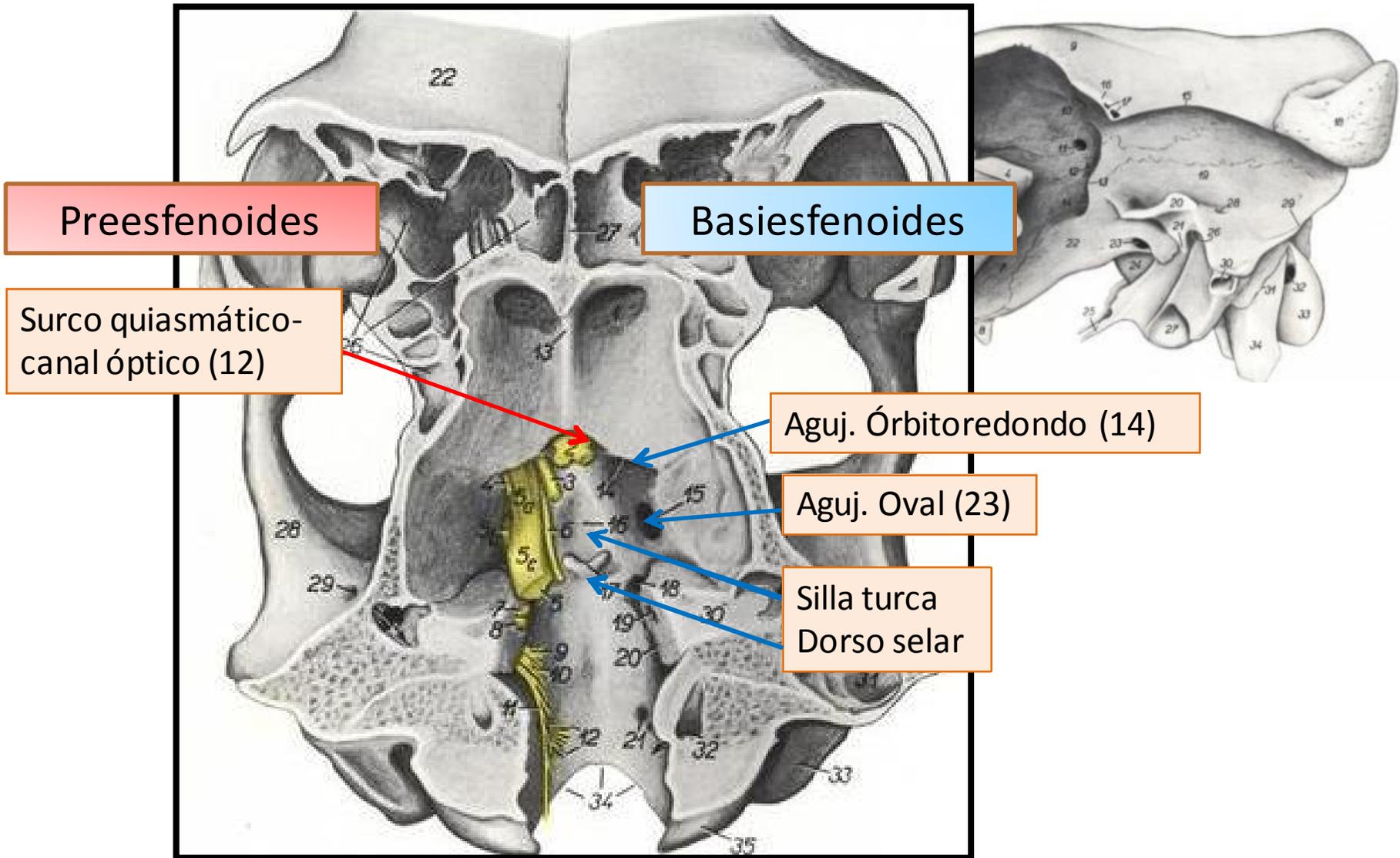
# Esfenoides

Preesfenoides:  
Cuerpo  
Alas

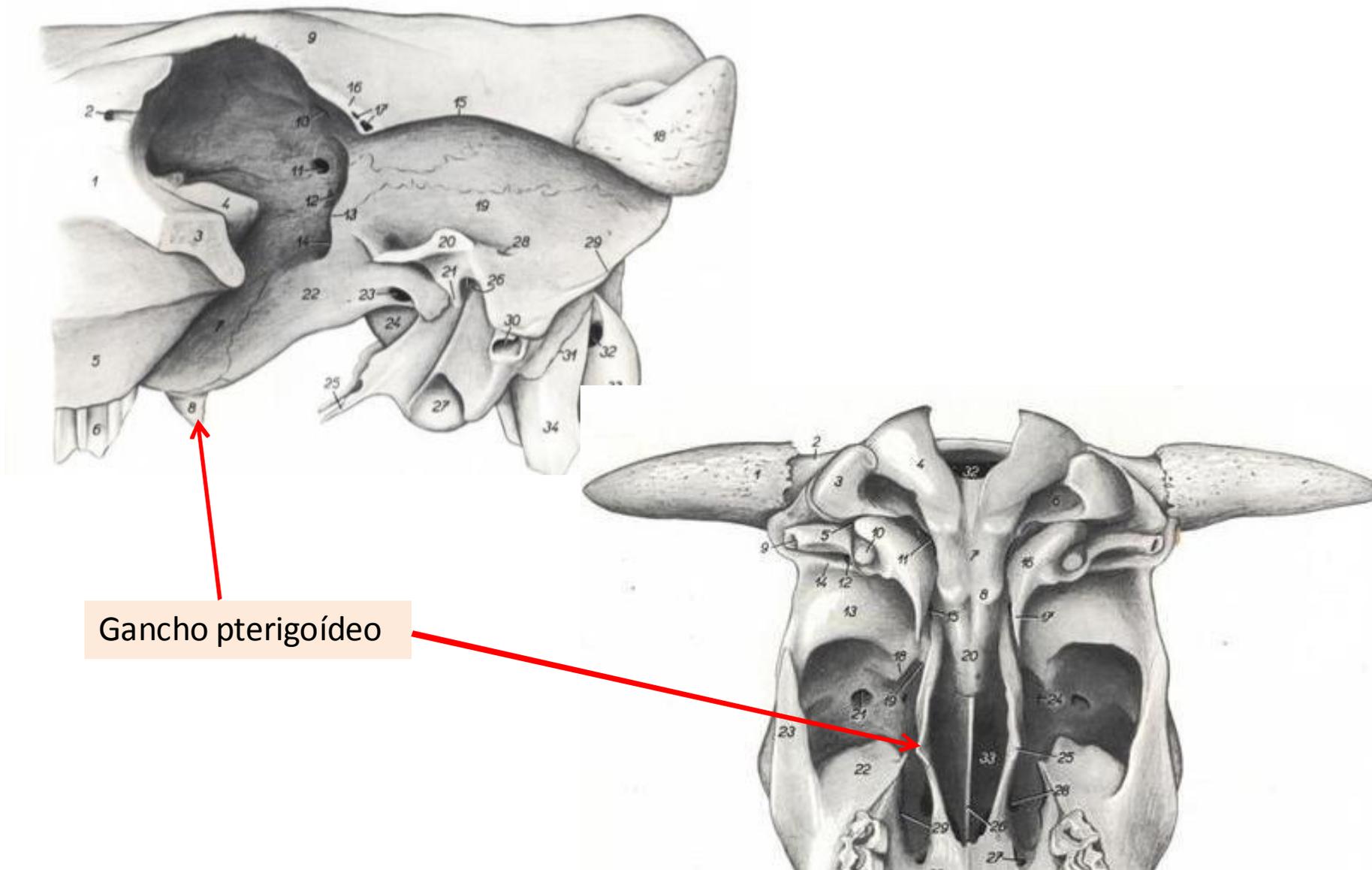
Basiesfenoides:  
Cuerpo  
Alas



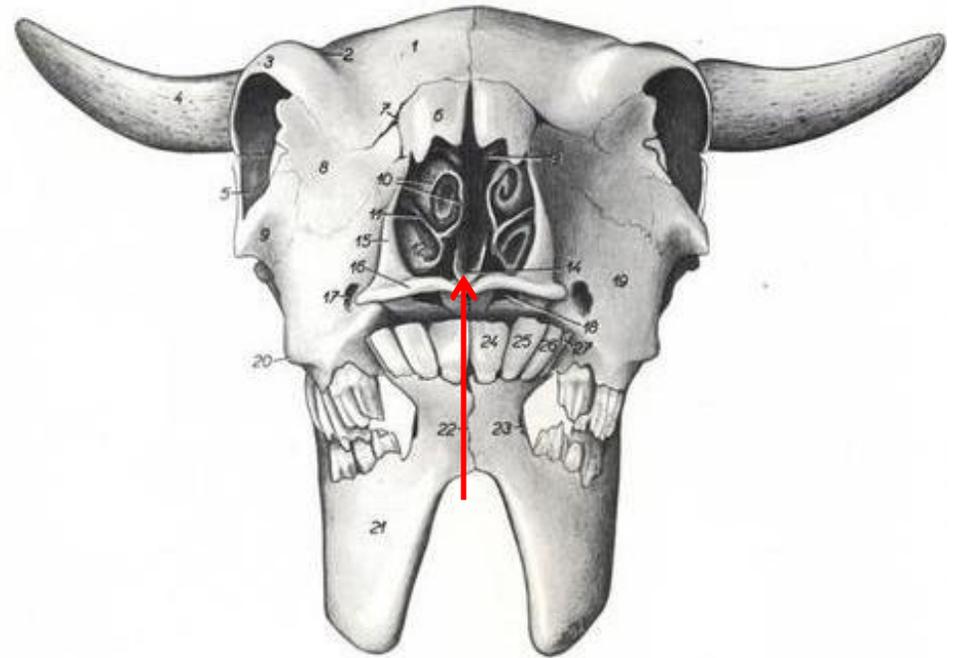
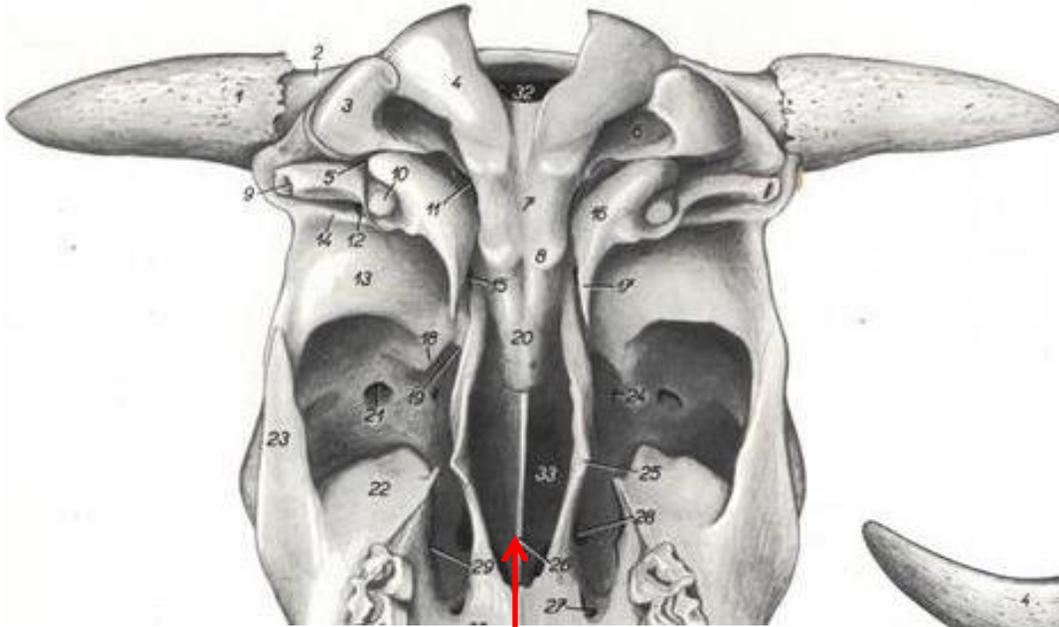
# Esfenoides



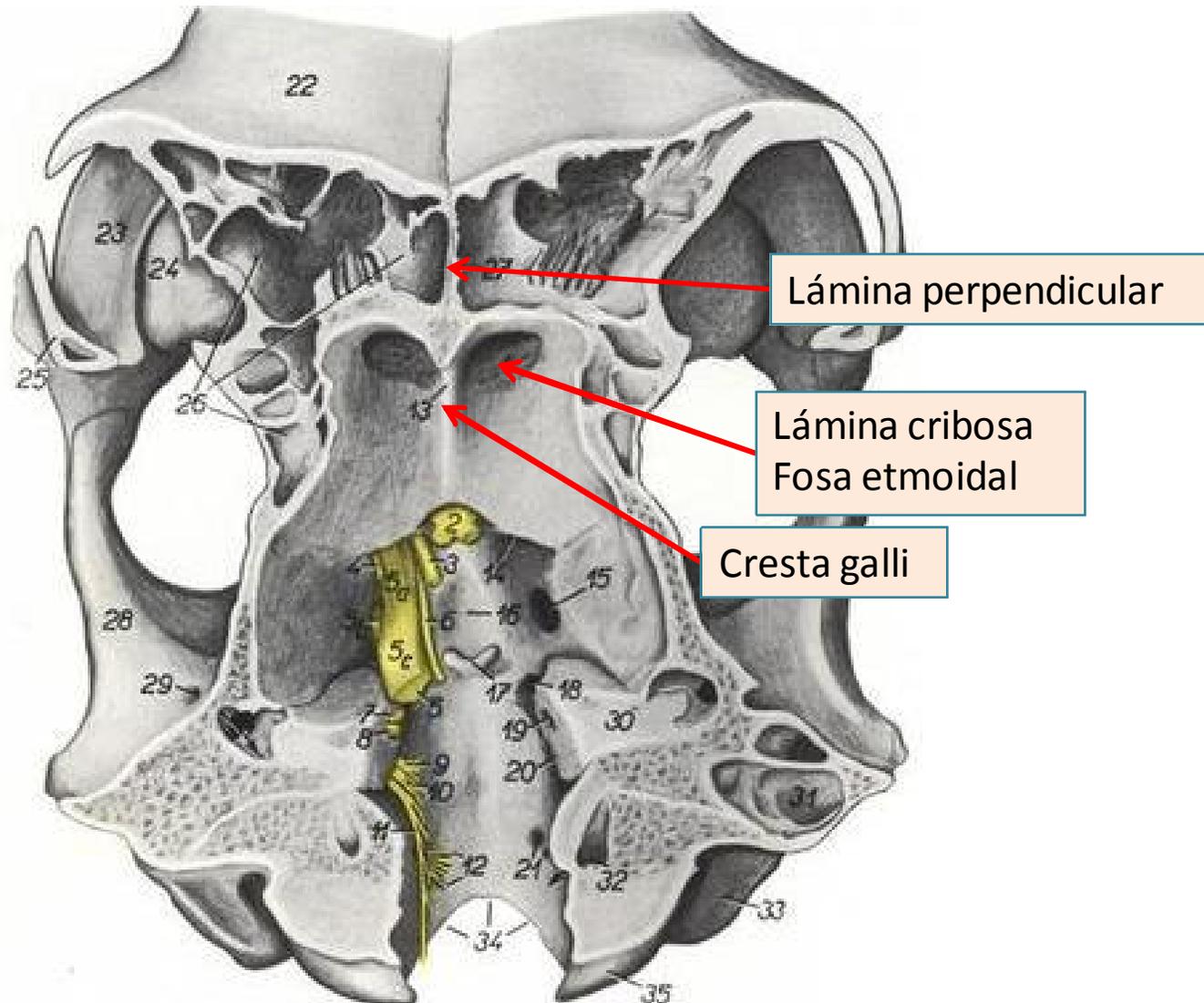
# Pterigoides



# Vómer



# Etmoides

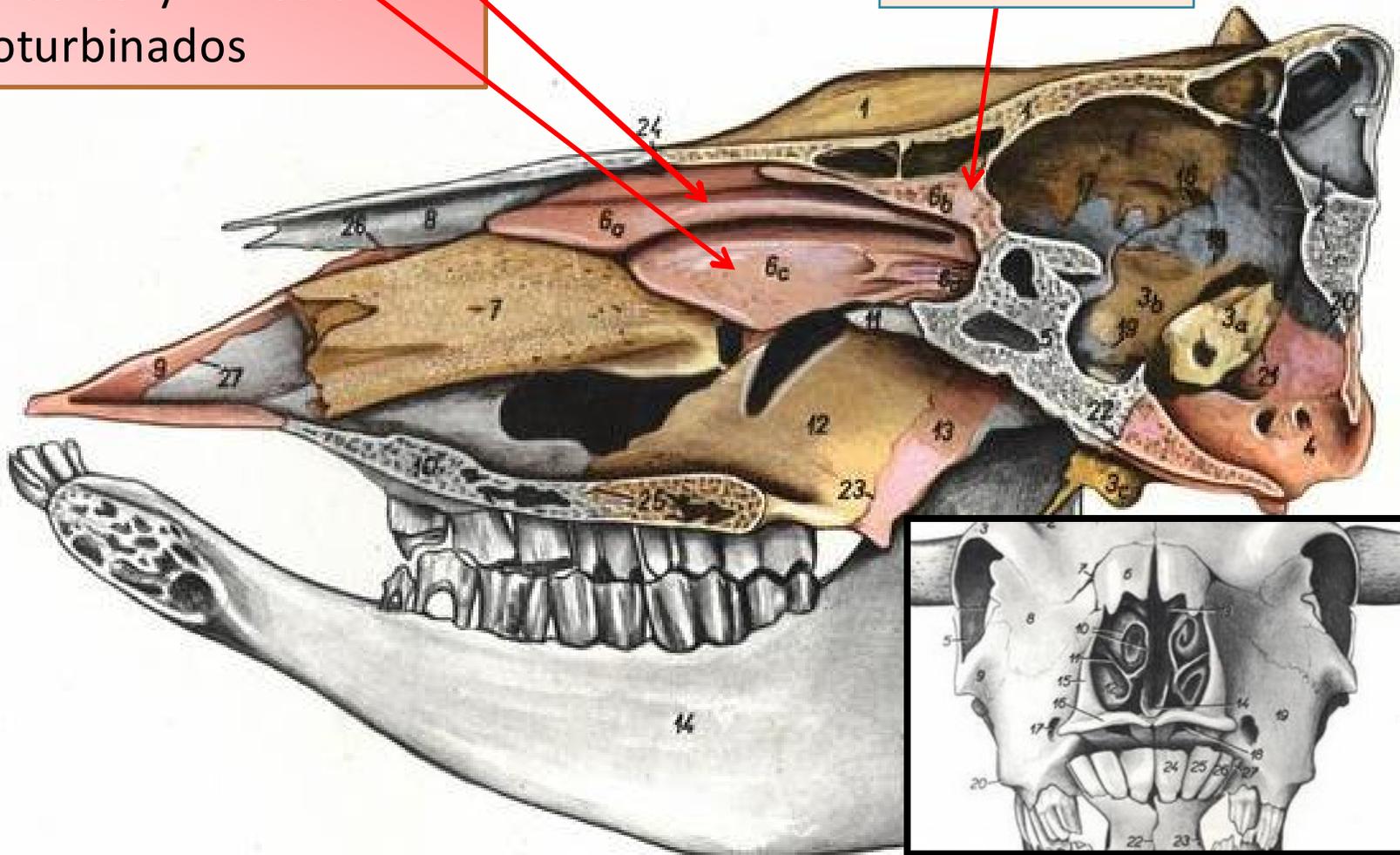


# Etmoides

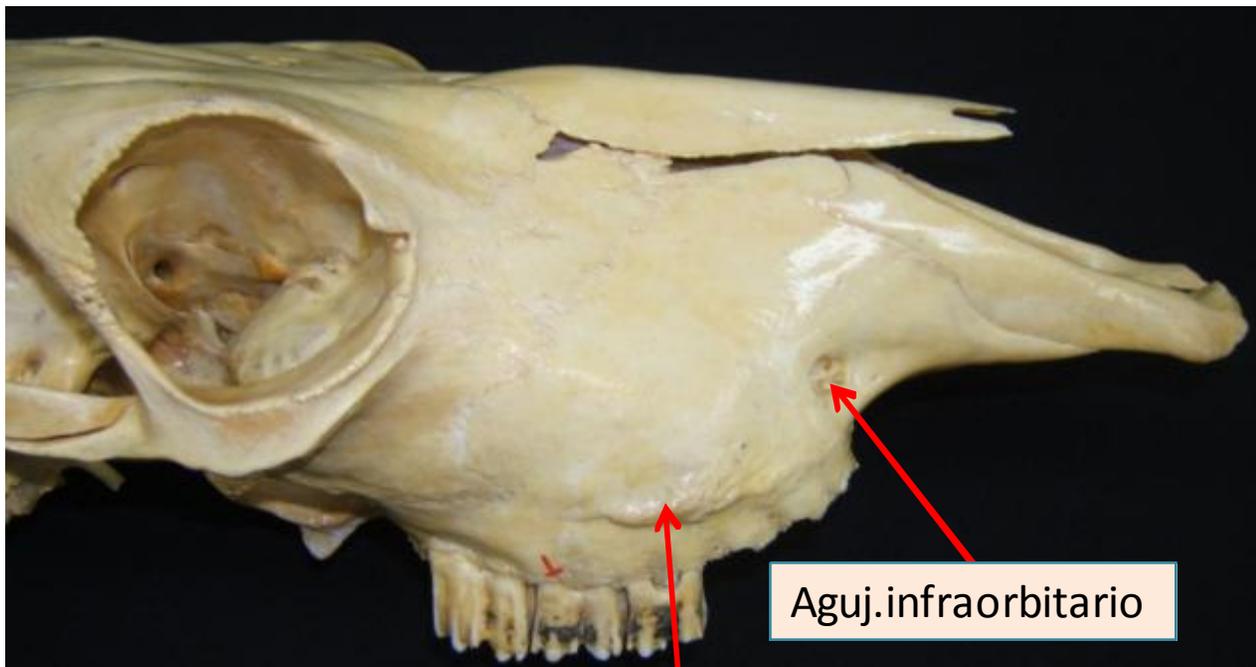
## Laberinto etmoidal:

- Endoturbinados: I concha nasal dorsal y II media
- Ectoturbinados

Lámina perpendicular

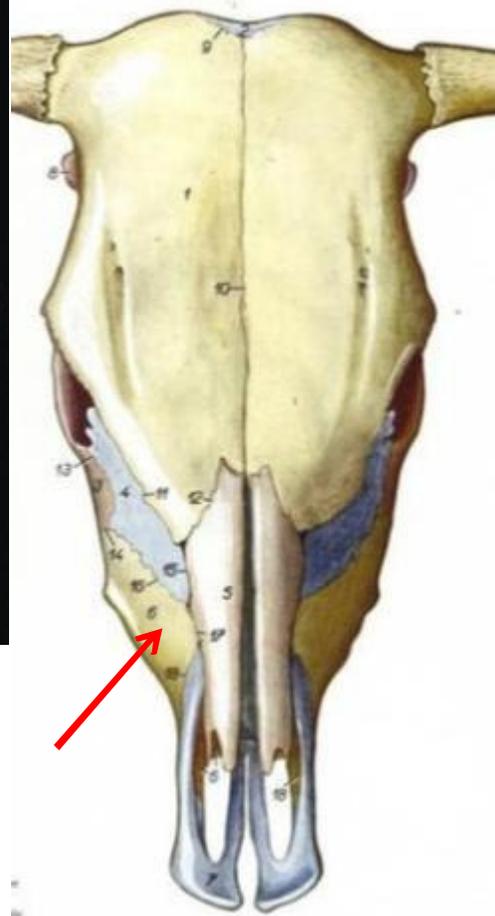


# Huesos del la cara Maxilar



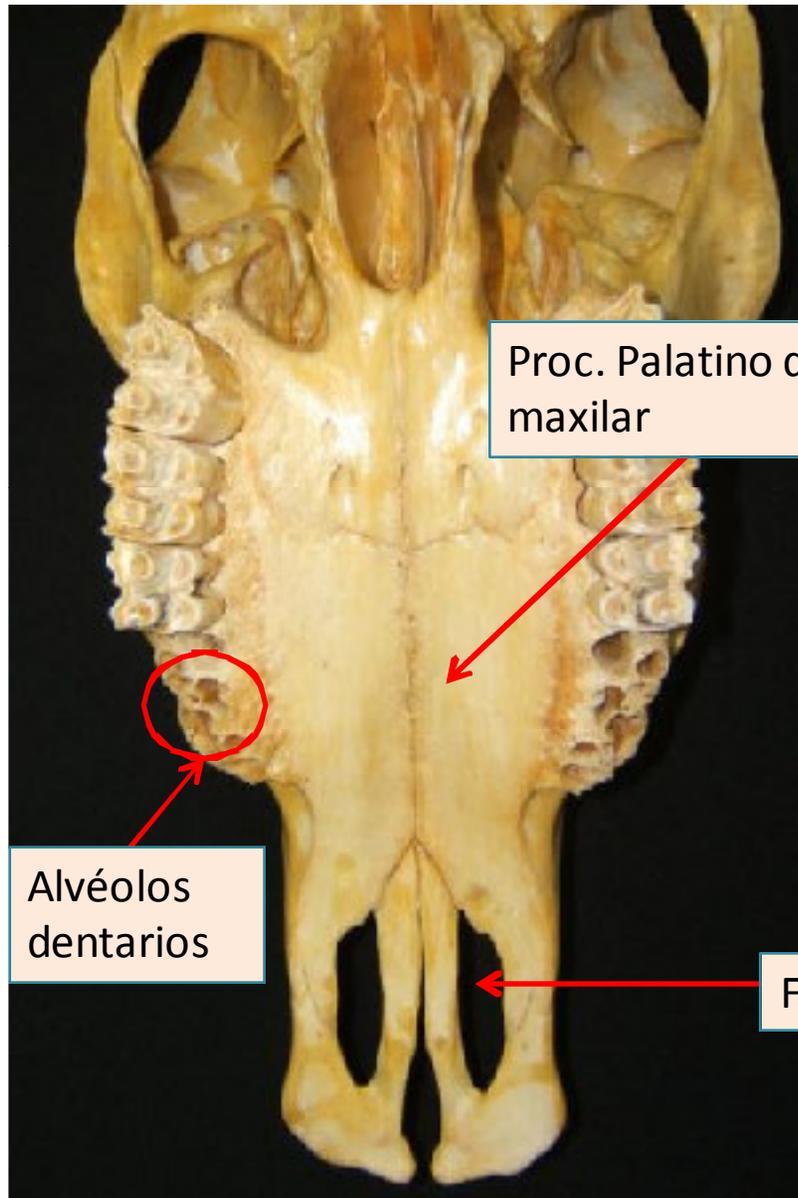
Aguj.infraorbitario

Cresta y tubérculo  
facial



Aguj. Maxilar - Canal infraorbitario – aguj. infraorbitario

# Maxilar

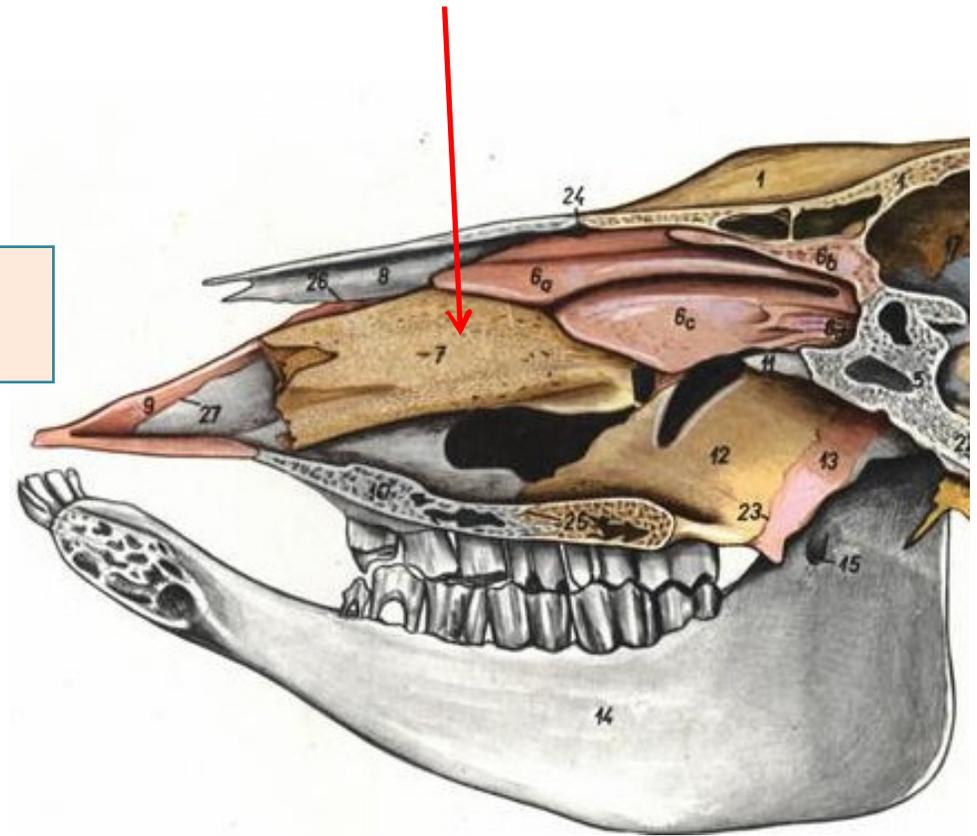


Proc. Palatino del maxilar

Alvéolos dentarios

Fisura palatina

# Concha nasal ventral



# Palatino

Fosa pterigopalatina

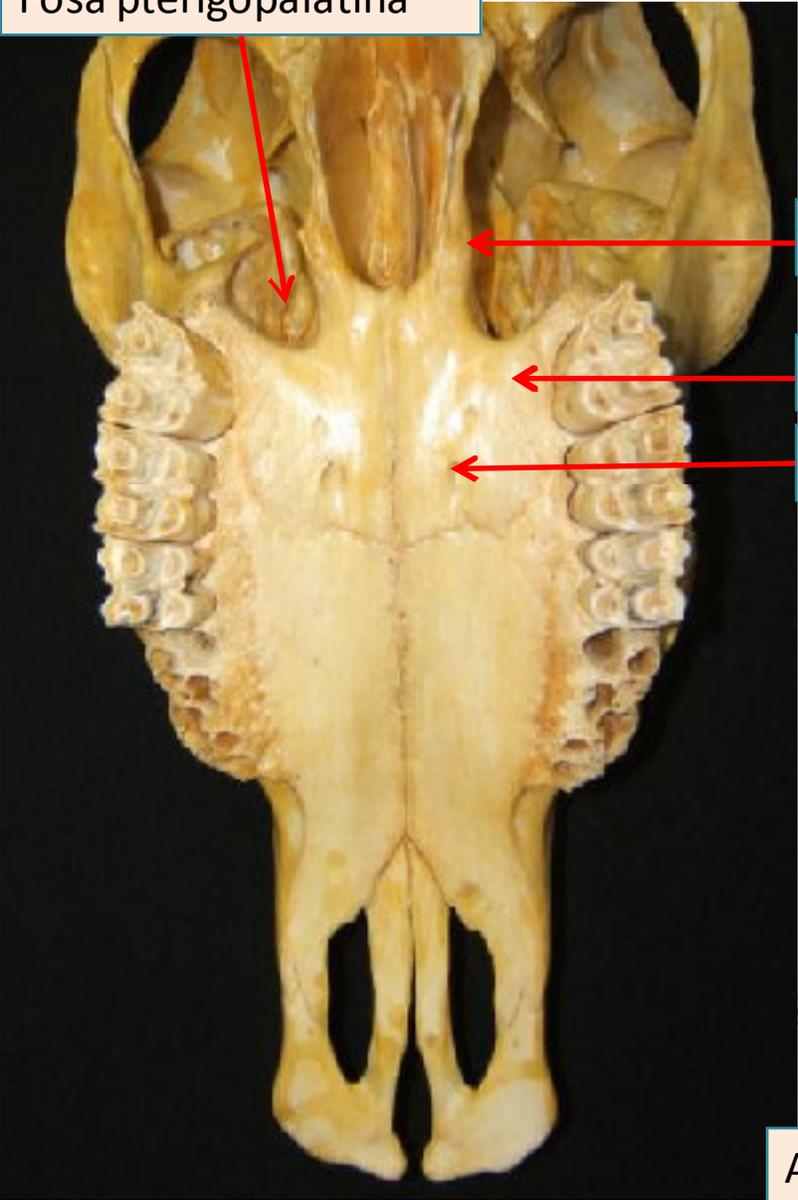


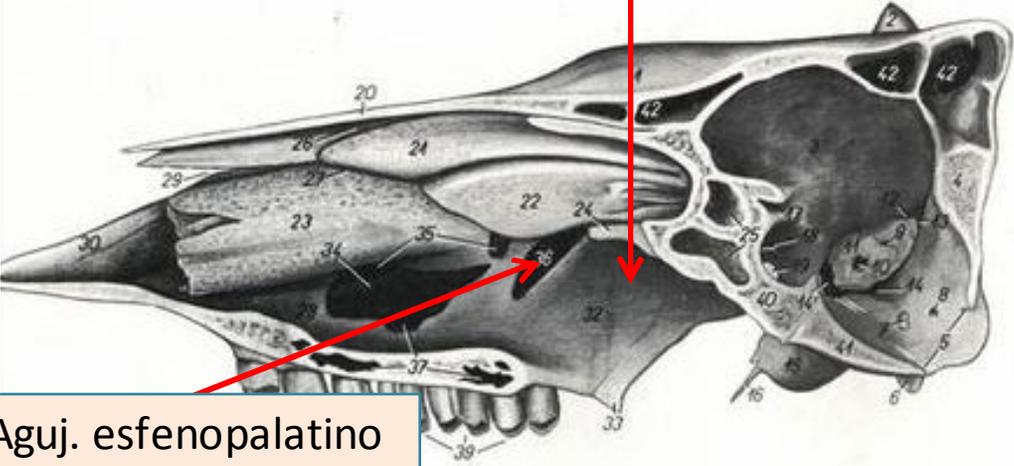
Lámina perpendicular

Lámina horizontal

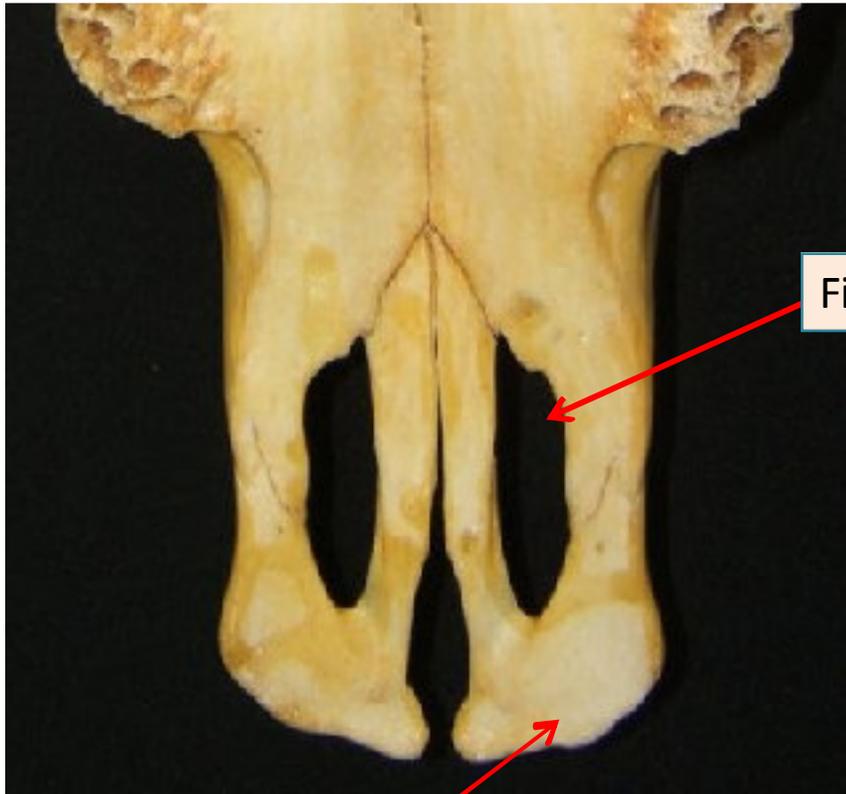
Aguj. Palatino mayor

Lámina perpendicular

Aguj. esfenopalatino

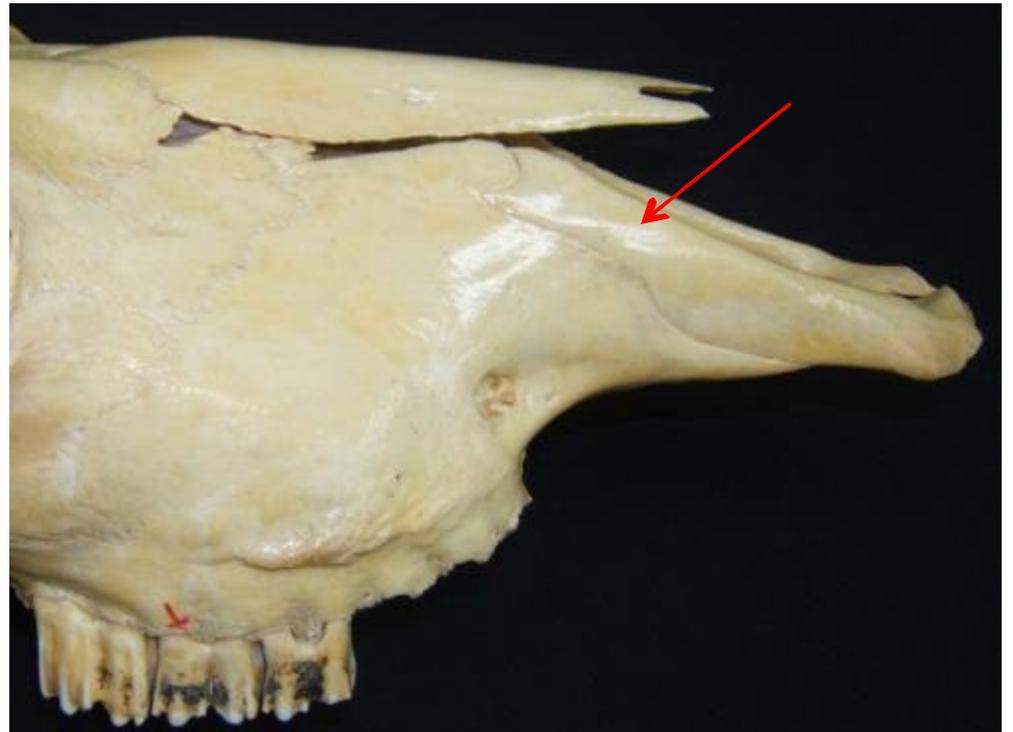


# Incisivo

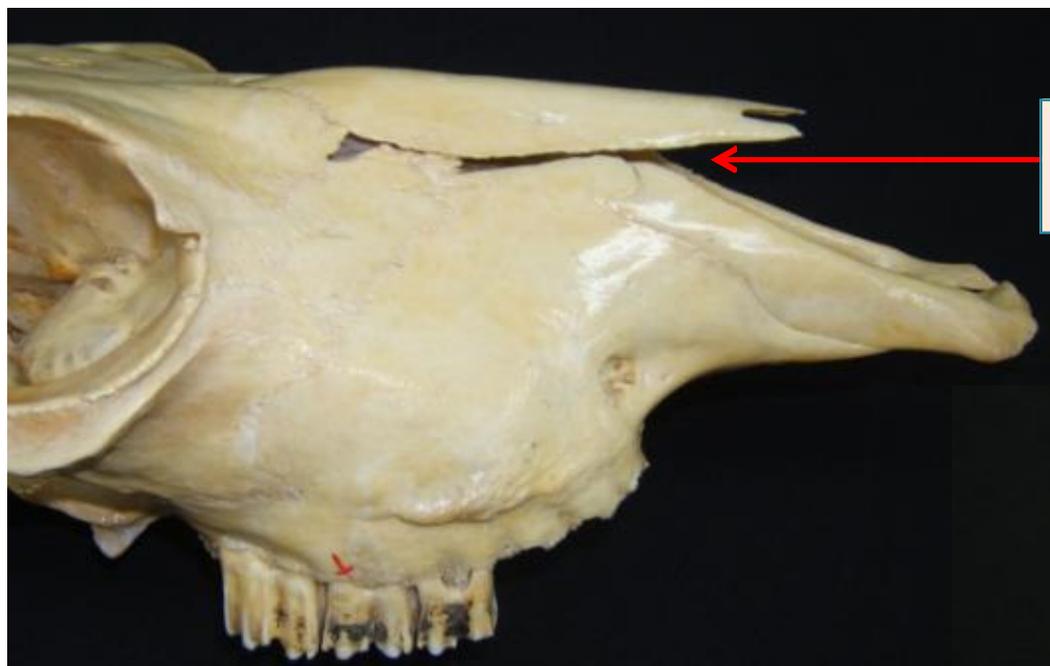


Fisura palatina

Cuerpo (No alvéolos)



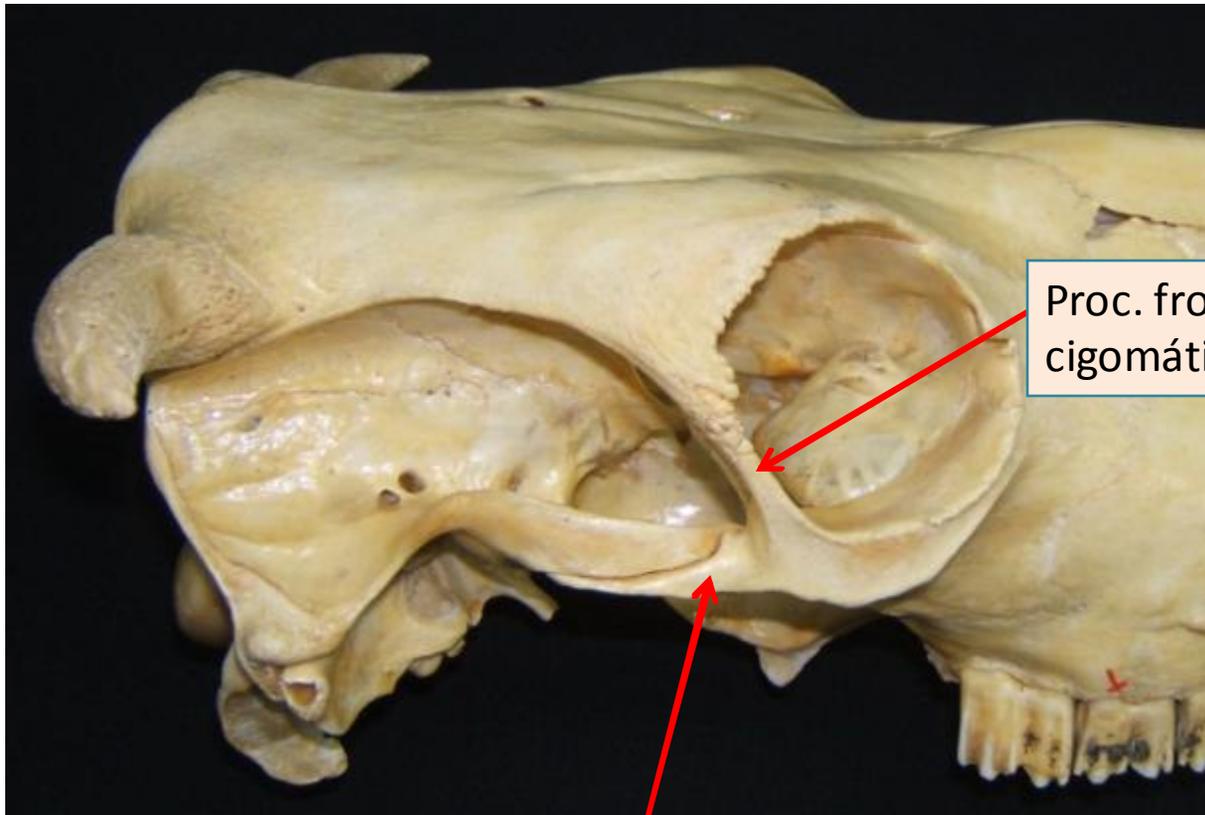
# Nasales



Incisura  
nasoincisiva

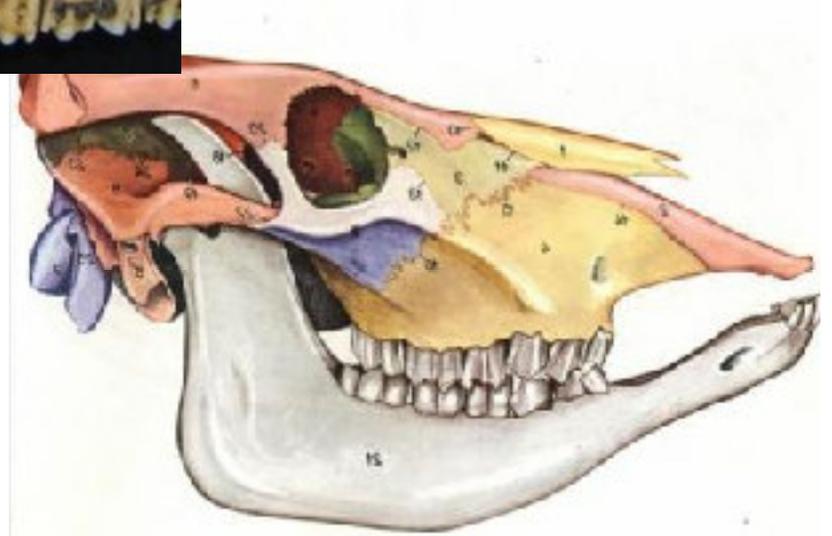


# Cigomático



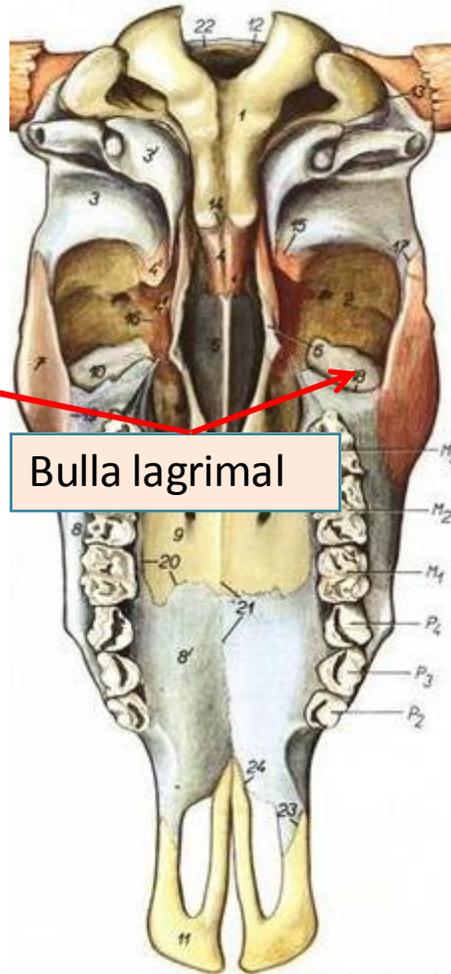
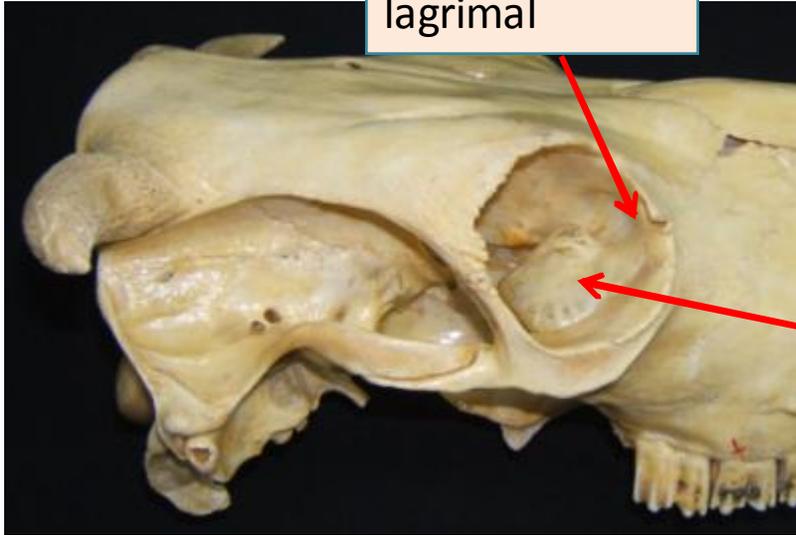
Proc. frontal del cigomático

Proc. Temporal del cigomático

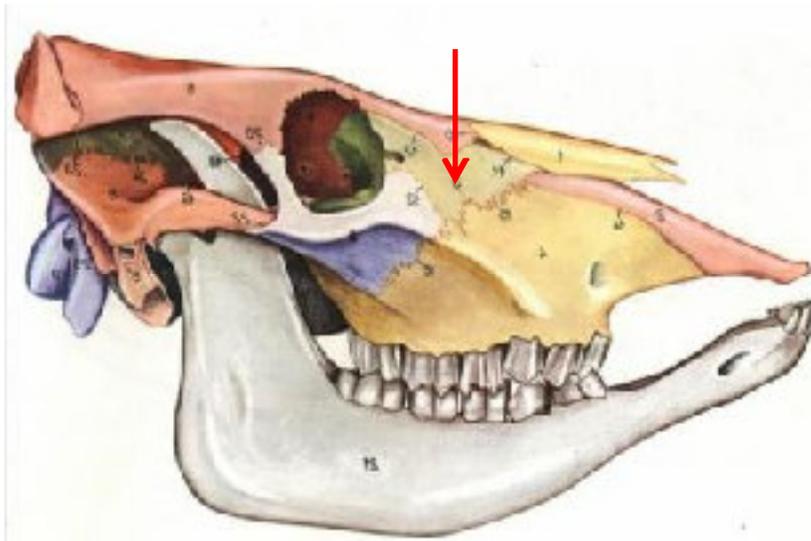
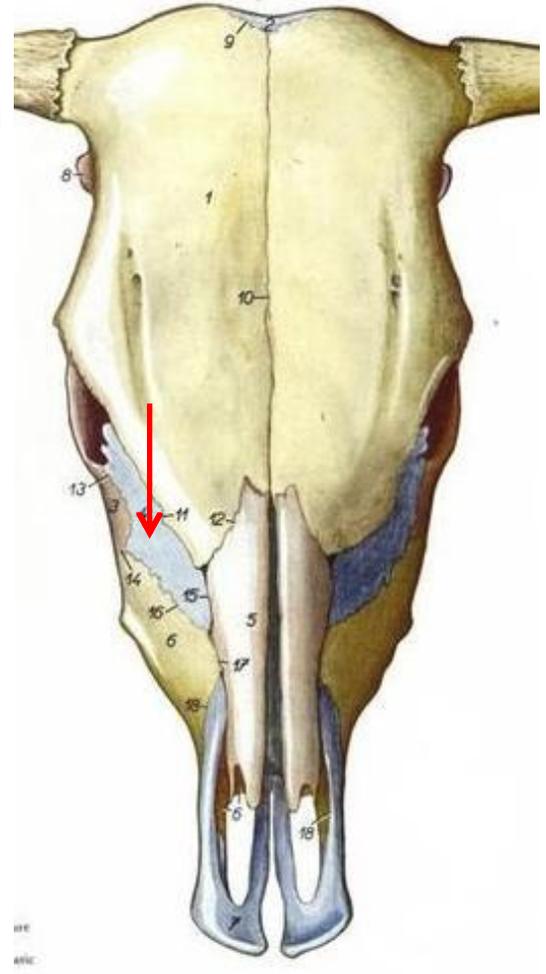


# Lagrimal

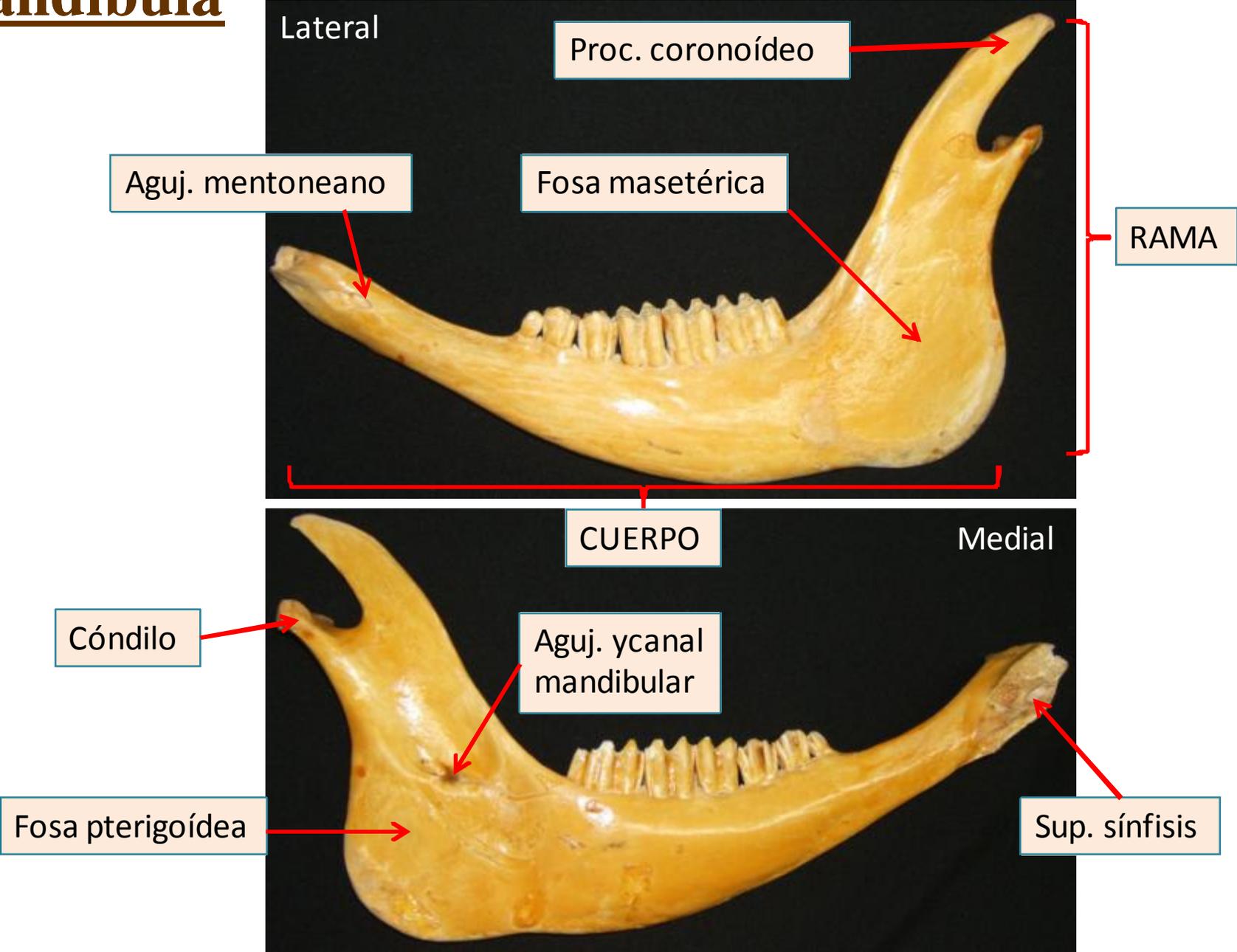
Fosa para sacco  
lagrimal



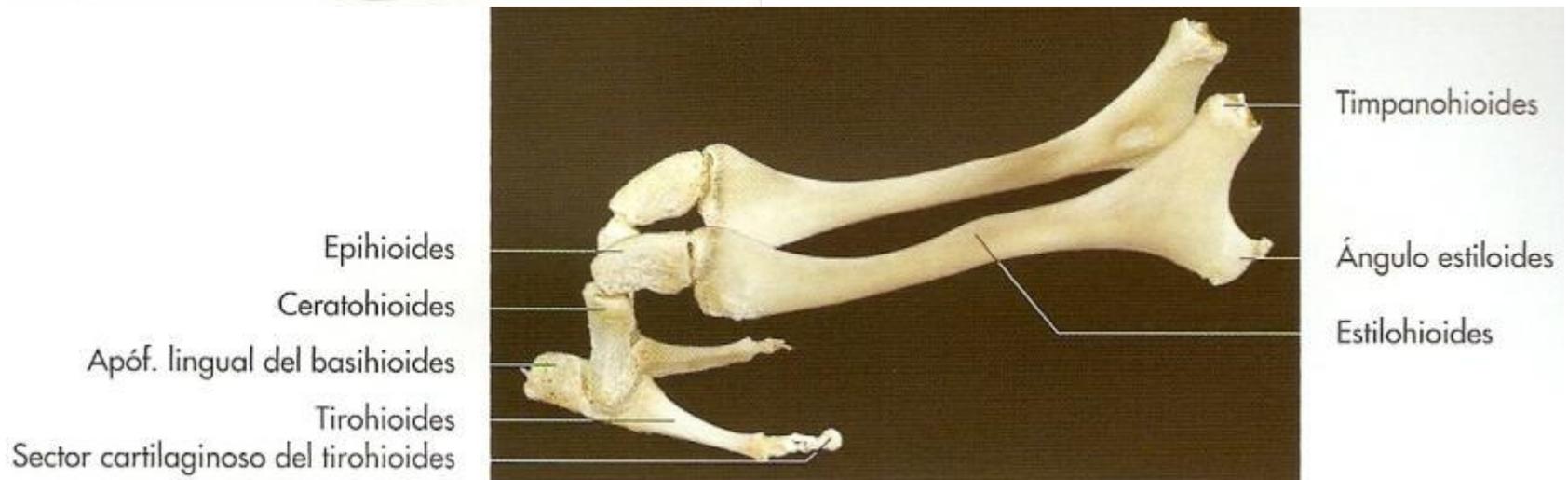
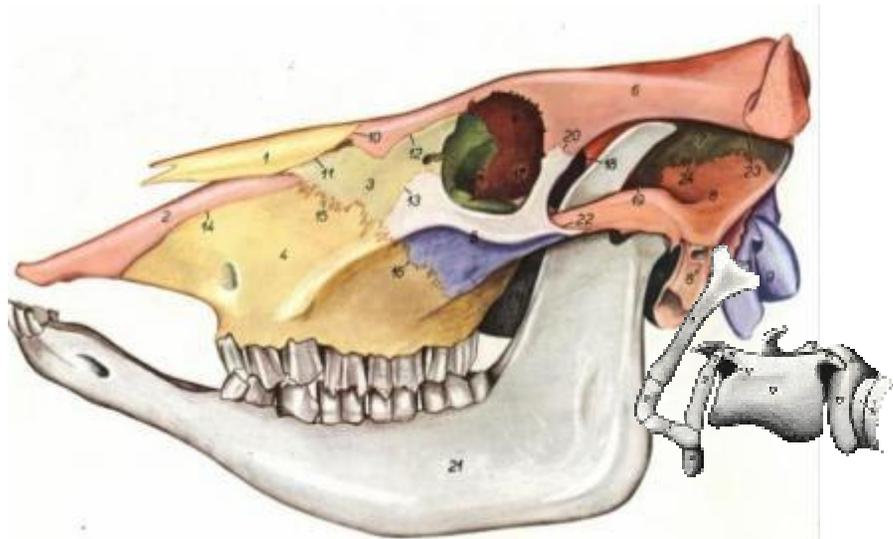
Bulla lagrimal



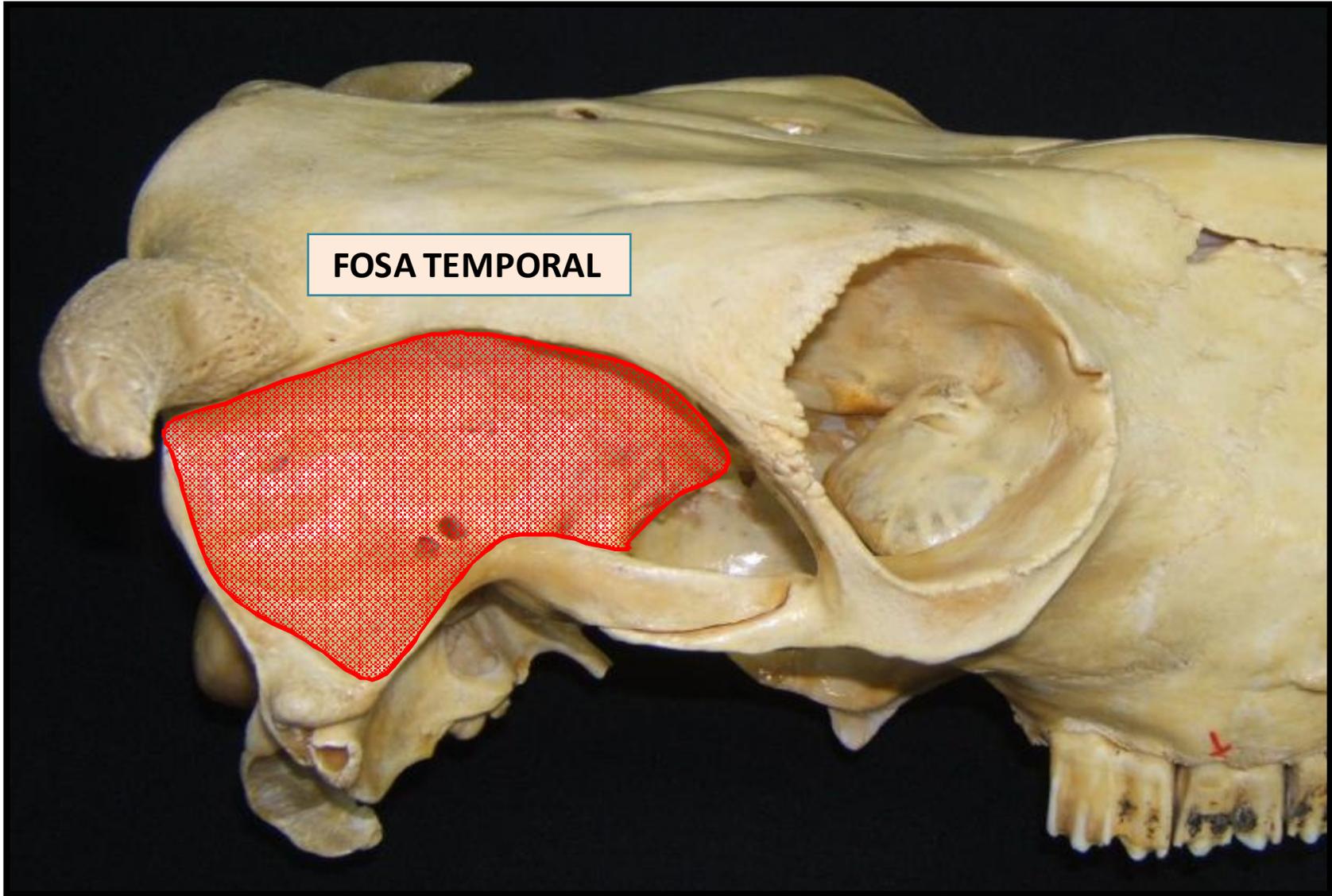
# Mandíbula



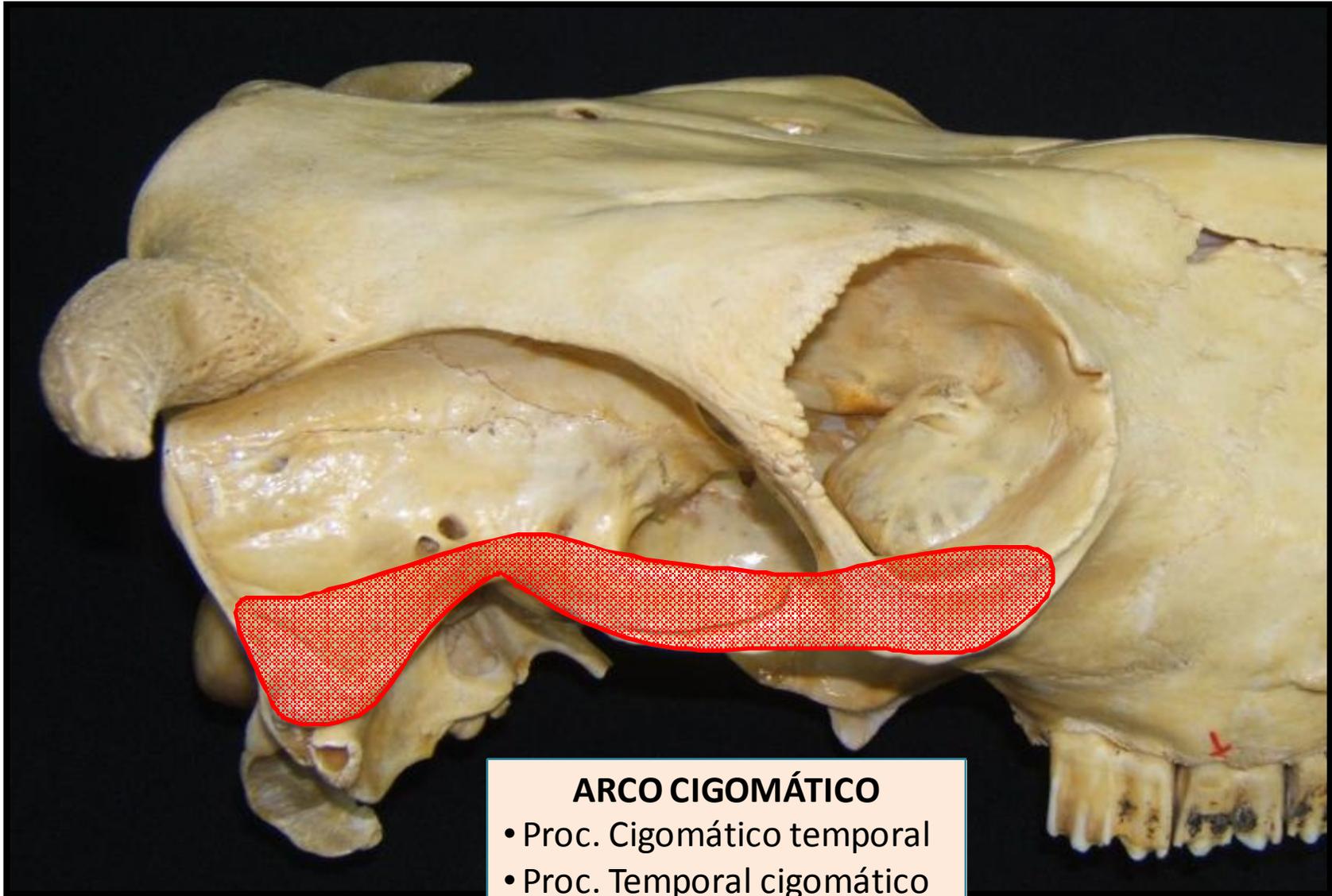
# Hioides



# Cráneo en conjunto



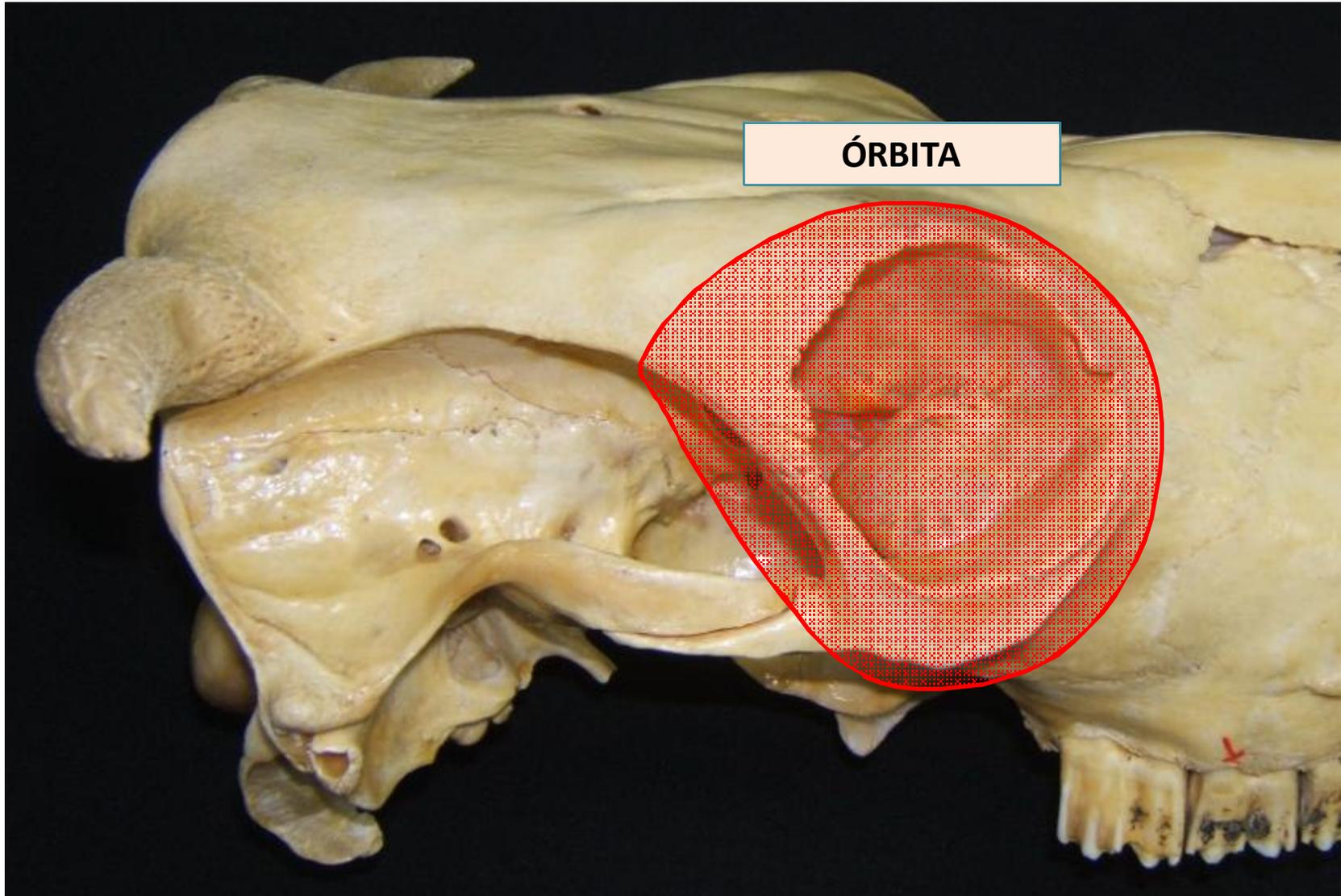
# Cráneo en conjunto



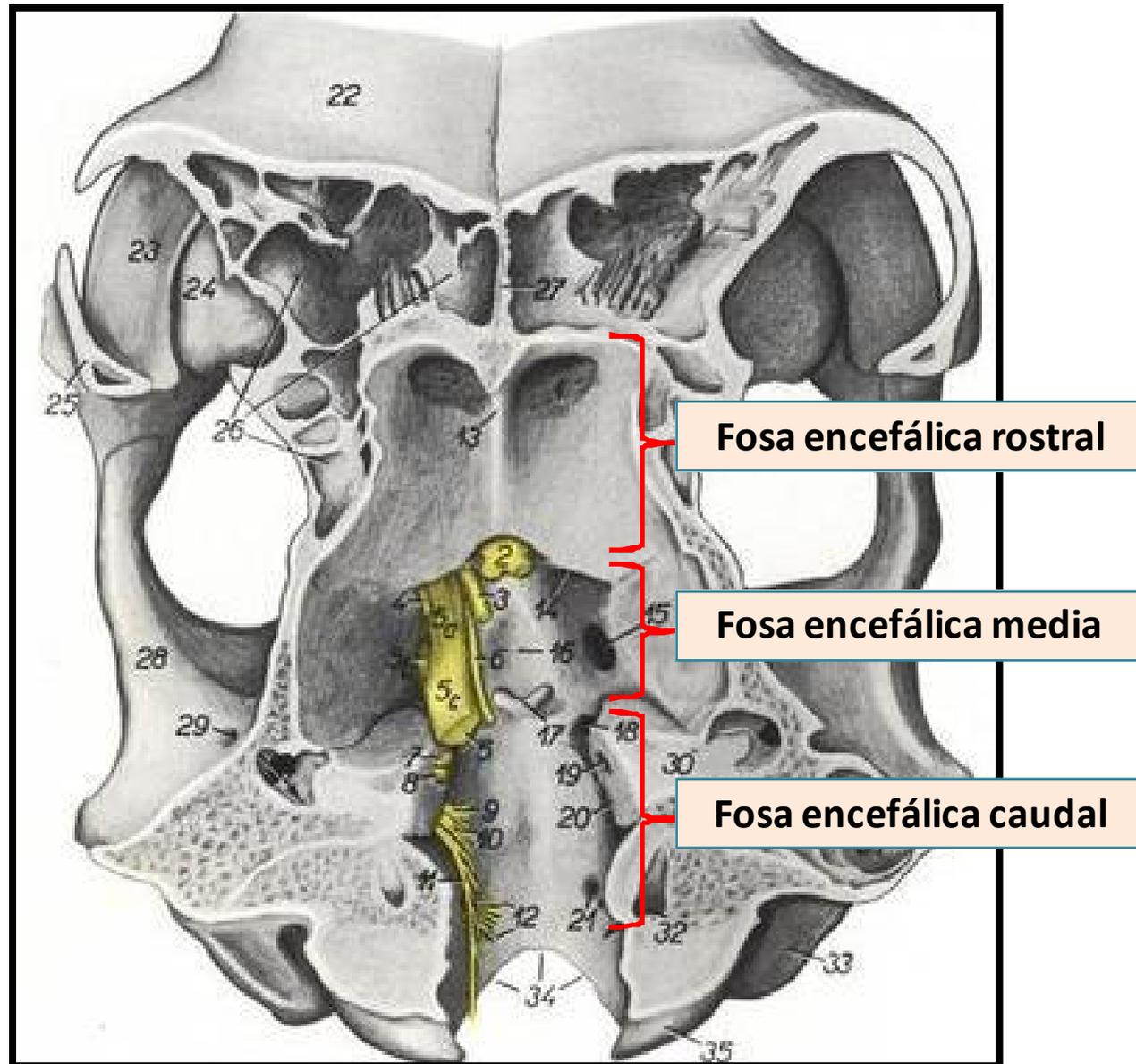
## **ARCO CIGOMÁTICO**

- Proc. Cigomático temporal
- Proc. Temporal cigomático

# Cráneo en conjunto



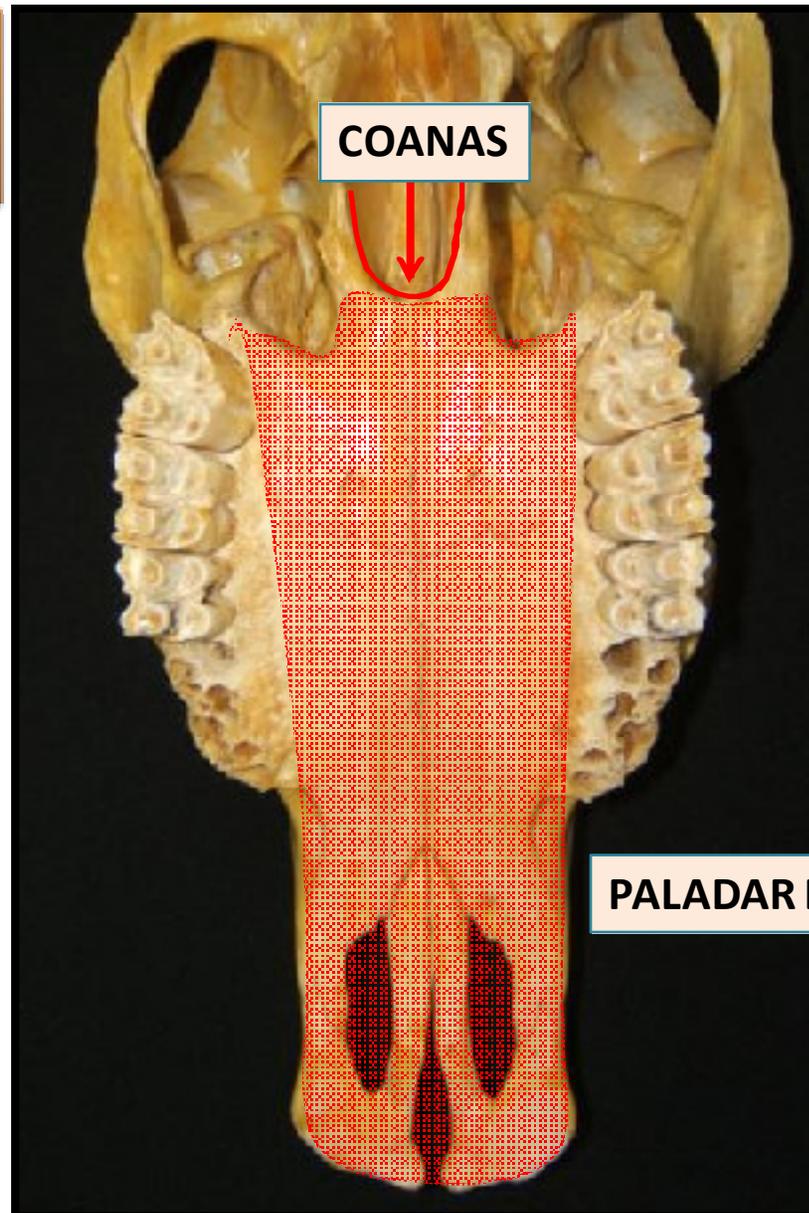
# Cráneo en conjunto



# Cráneo en conjunto

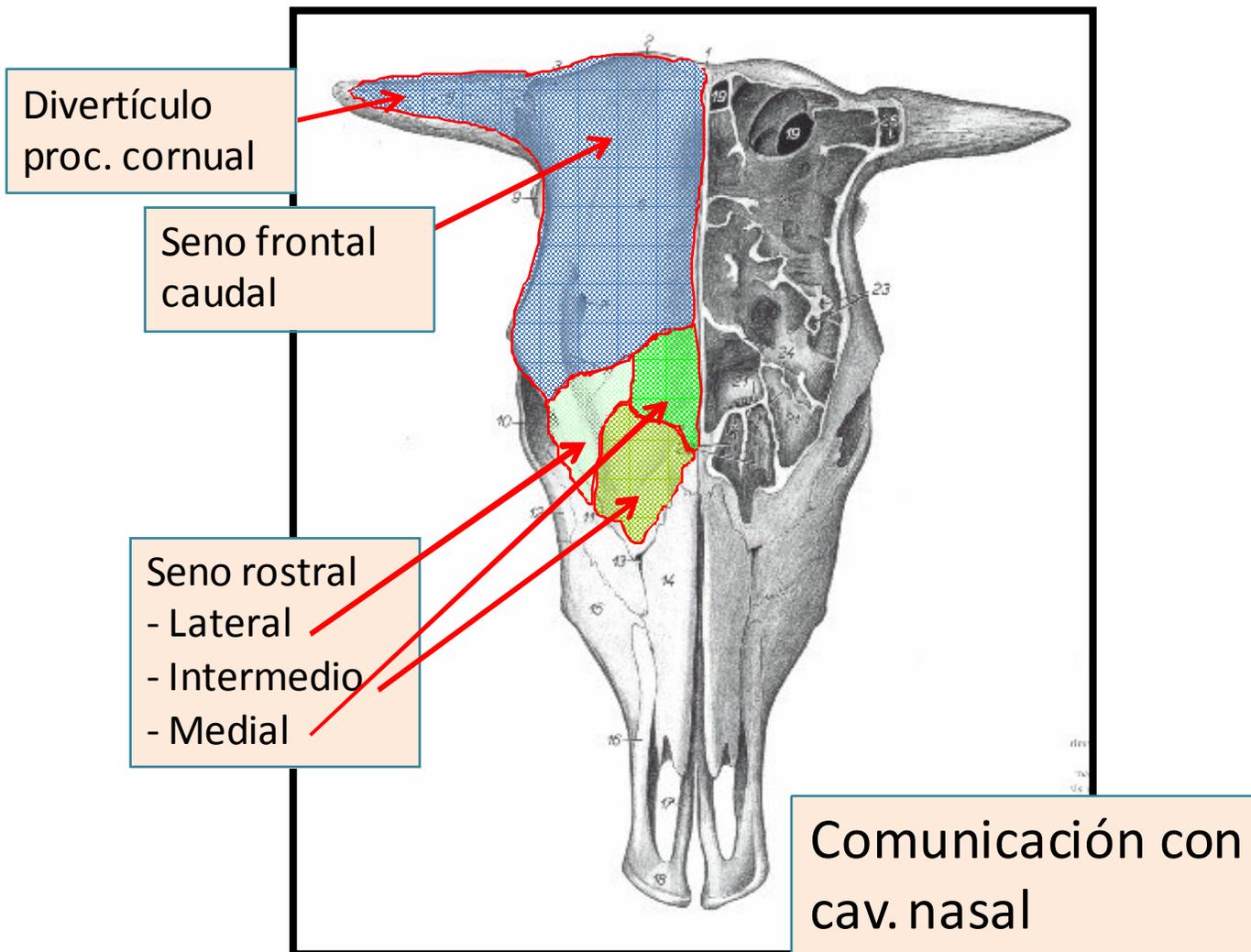
## **COANAS:**

Comunican cavidad nasal con nasofaringe.

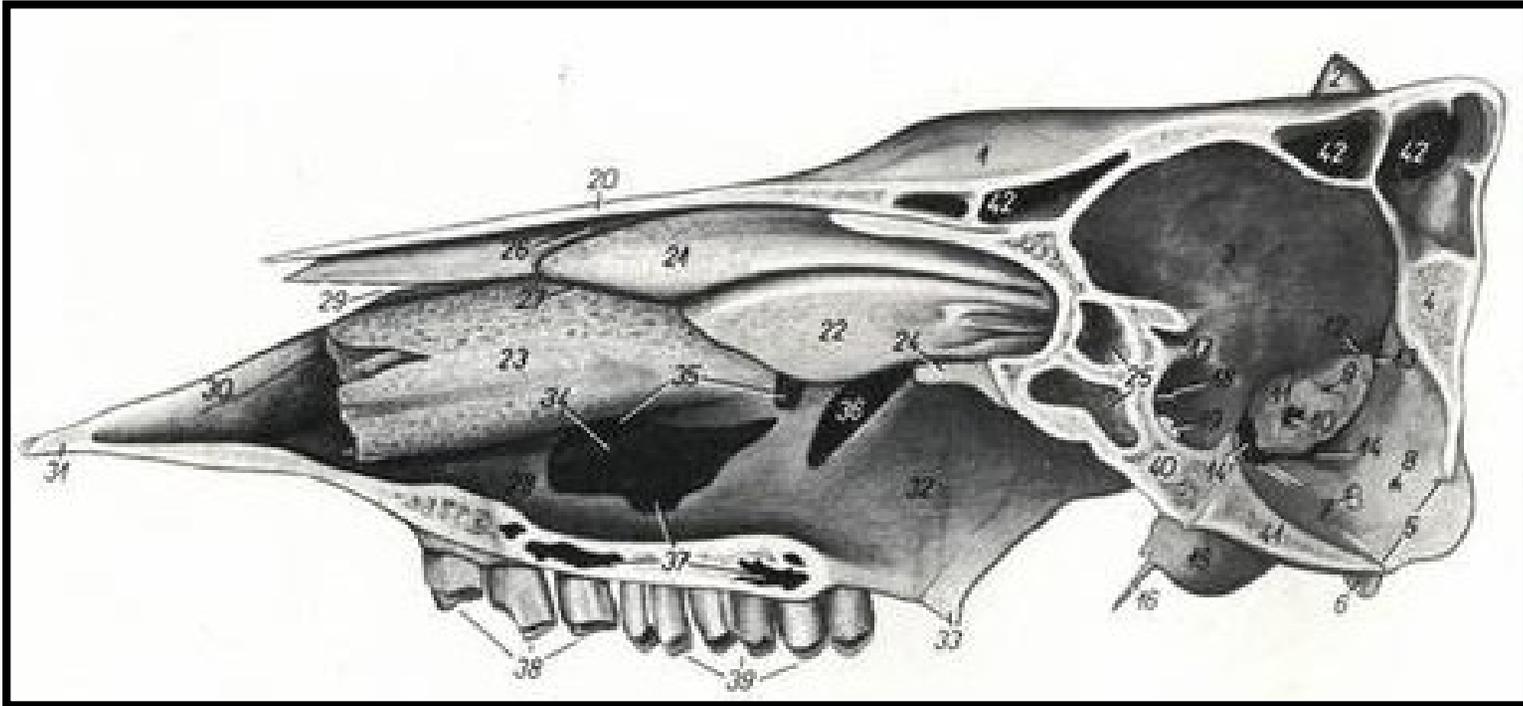


# Senos paranasales

## Seno Frontal

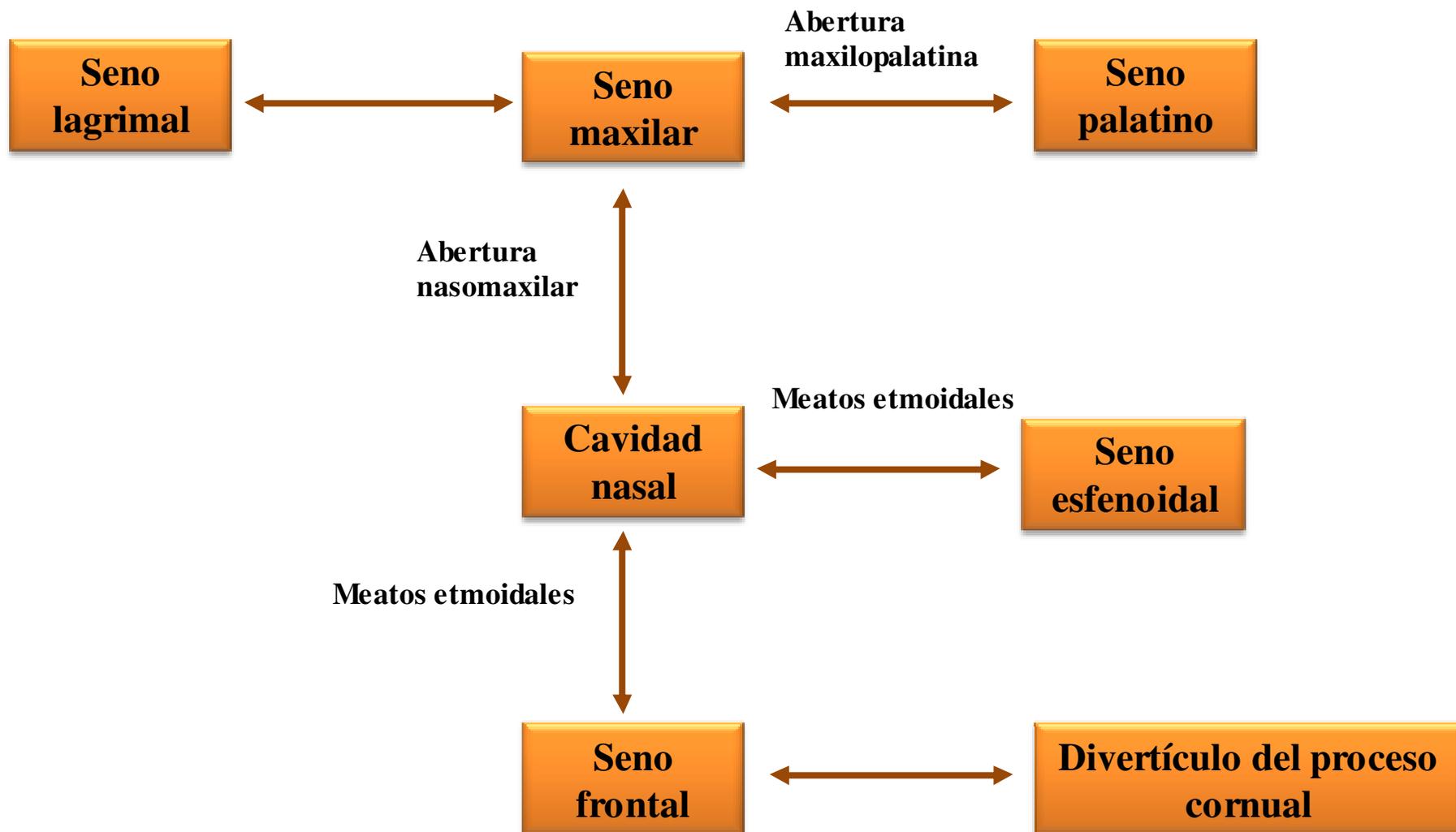


# Seno Maxilar, Palatino y Esfenoidal

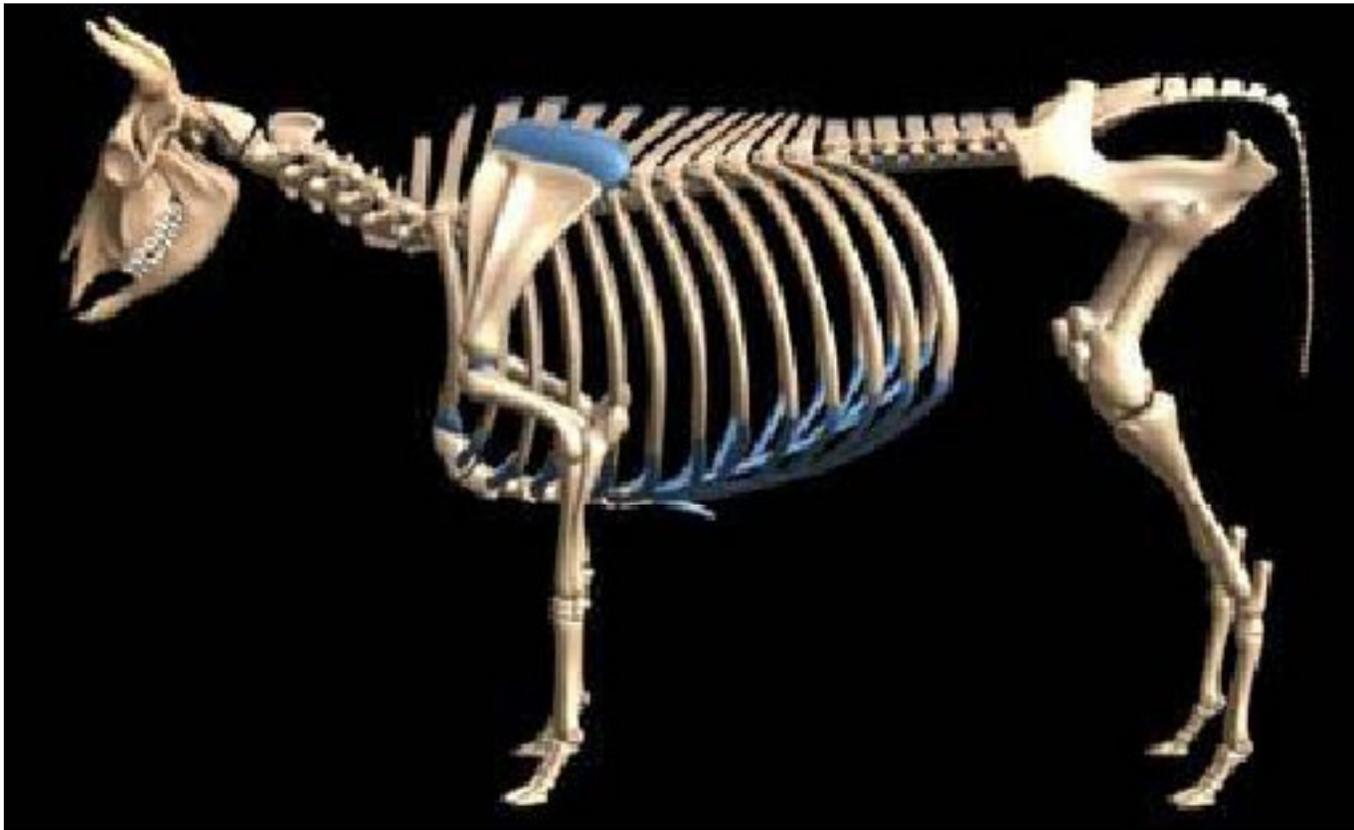


- **S. Maxilar (35):** En H. maxilar, lagrimal y cigomático. Comunica con cav. Nasal, s. palatino.
- **S. Palatino (37):** En paladar duro.
- **S. Esfenoidal (25):** En alas de preesfenoides. Comunica con cav. nasal.

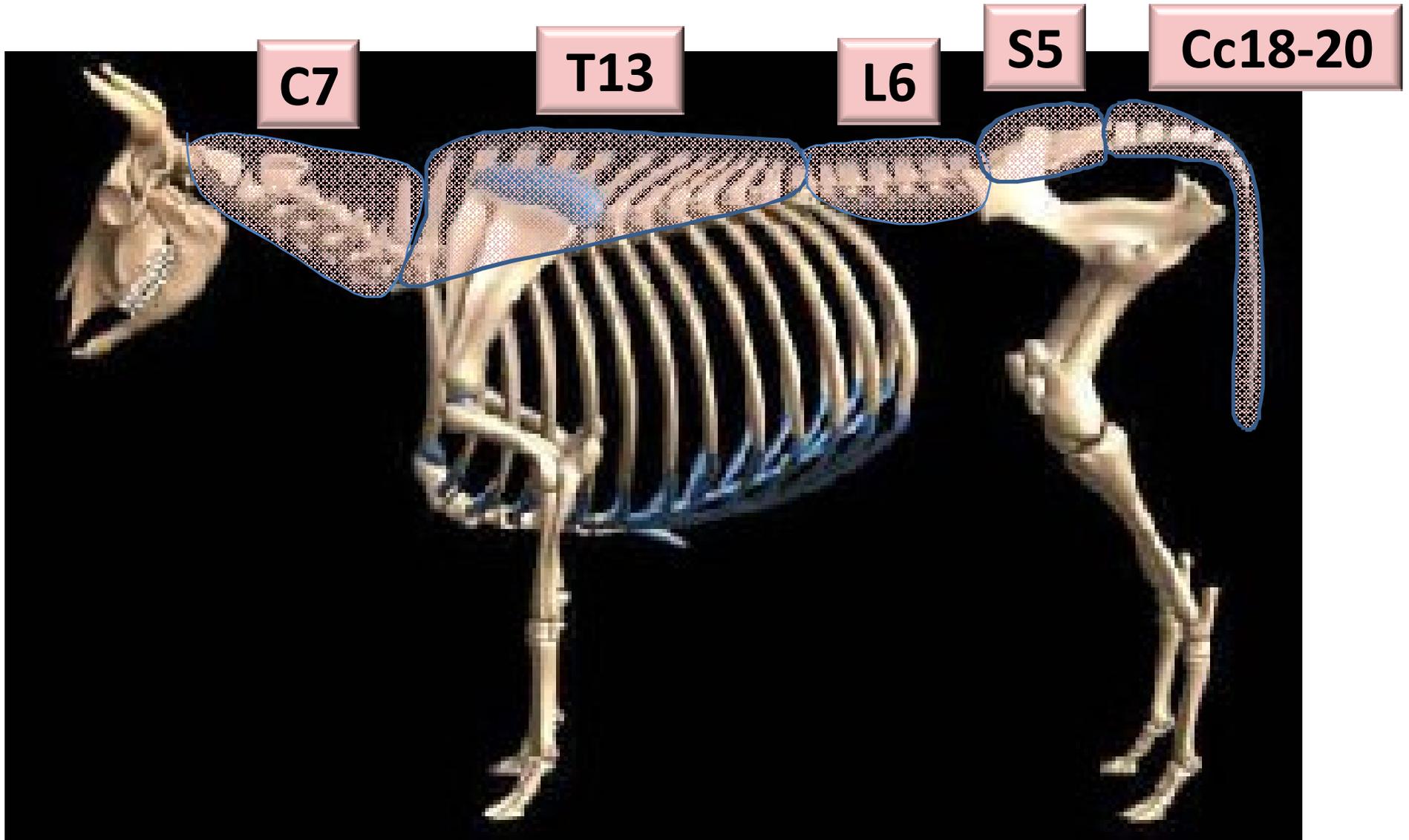
# Senos paranasales



# “OSTEOLOGÍA COLUMNA VERTEBRAL”

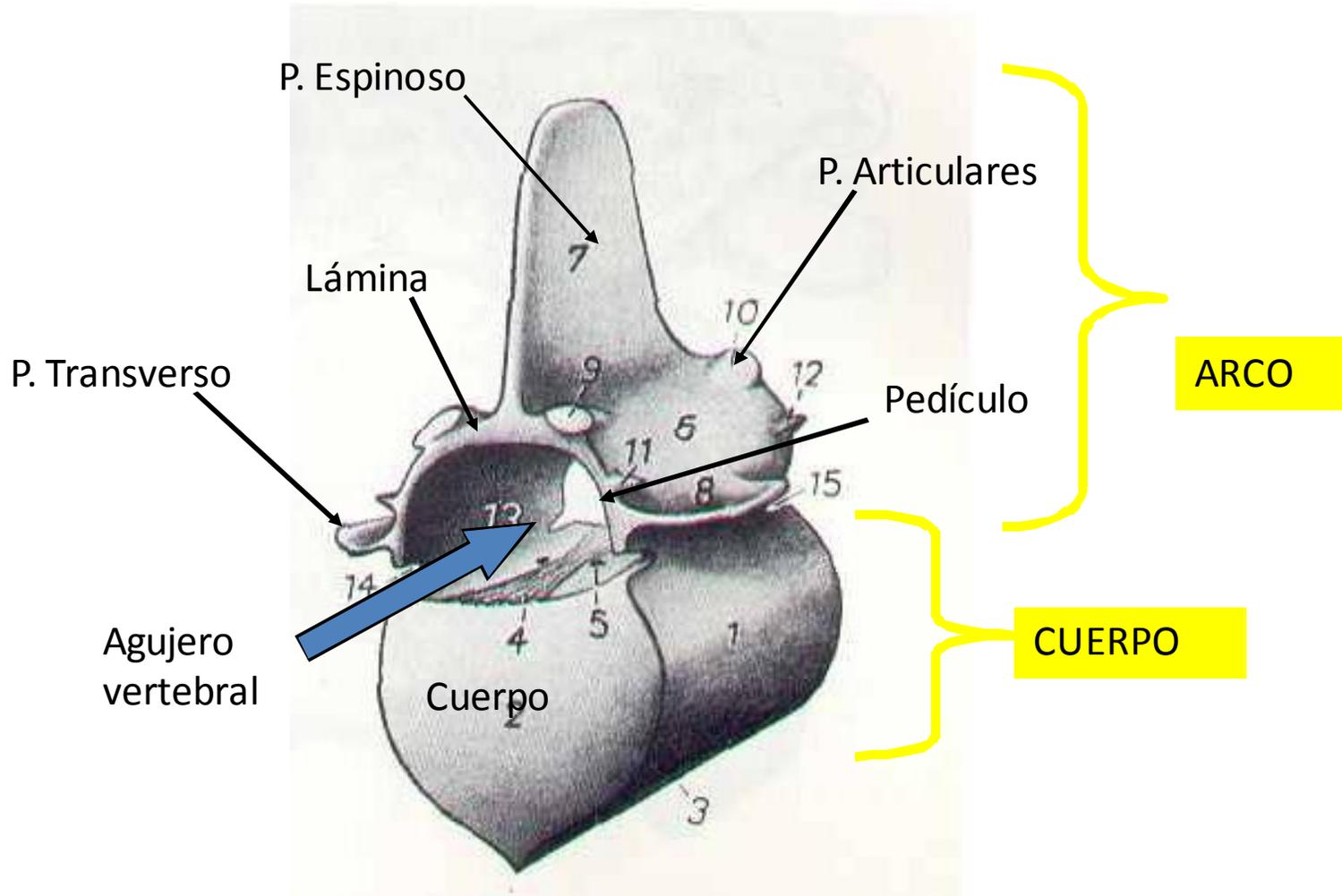


# Fórmula vertebral



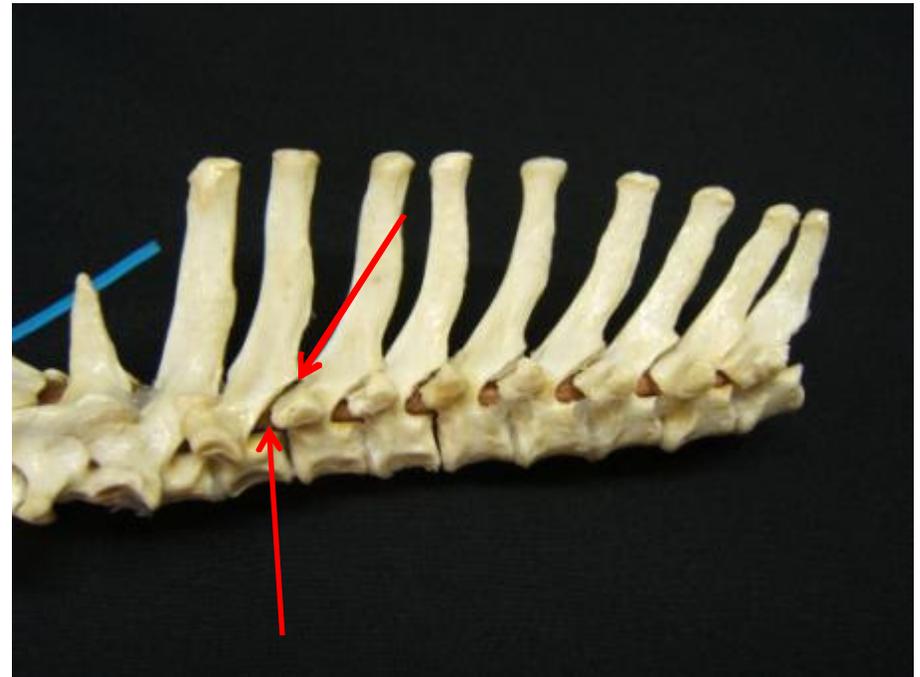
# Osteología columna vertebral

## Vértebra tipo



# Osteología columna vertebral

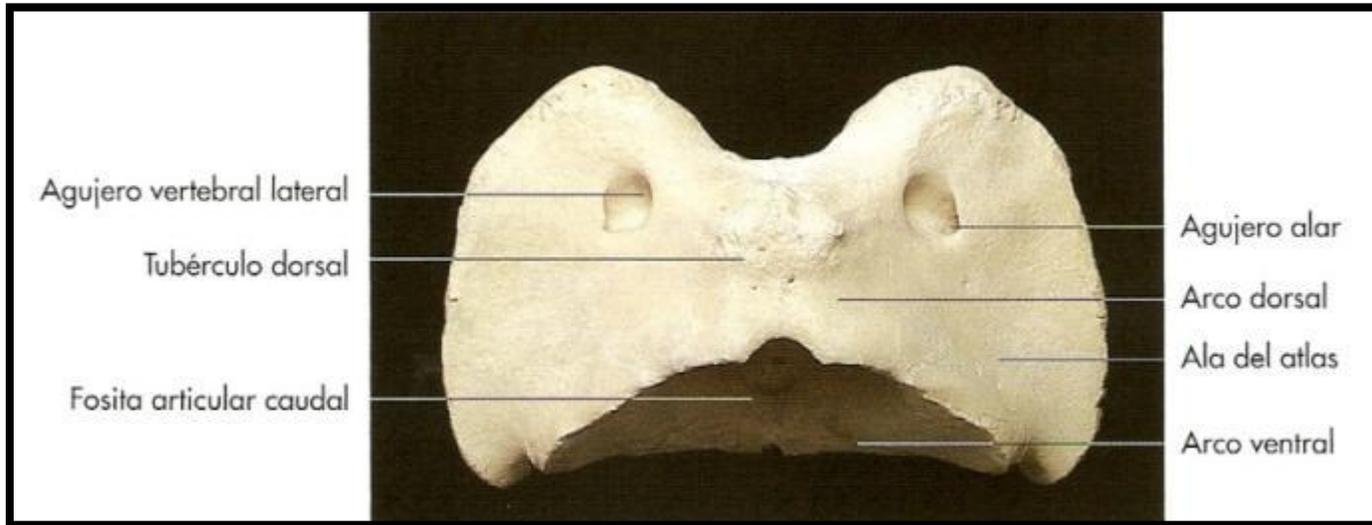
- **Agujero (foramen) intervertebral**
- **Agujero (foramen) interarcual**
- **Canal vertebral**



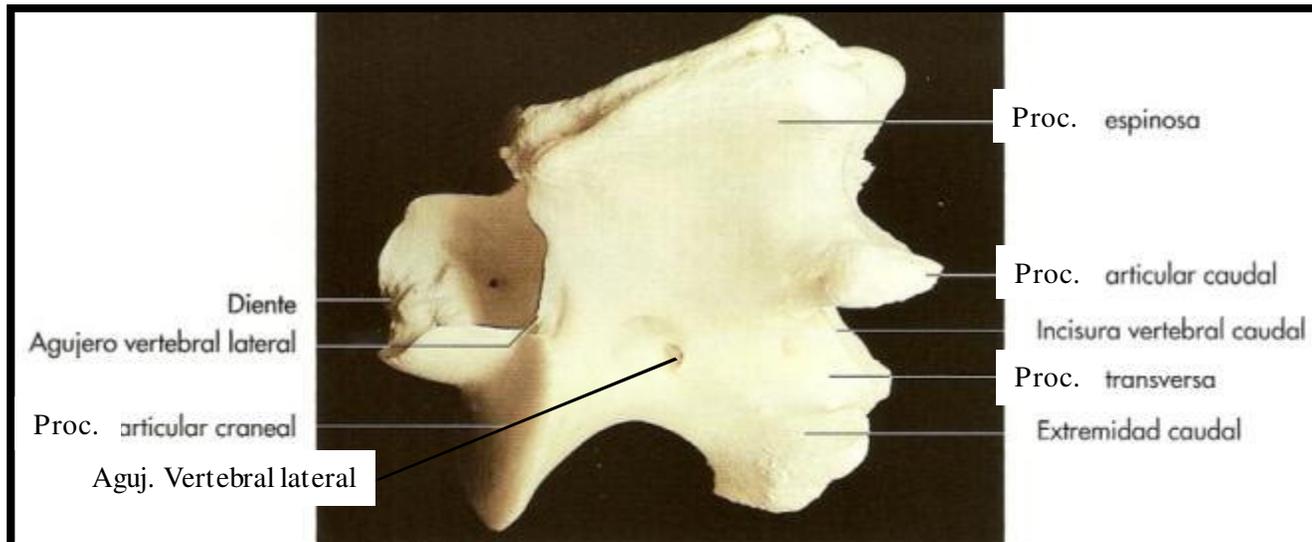
# Segmento cervical



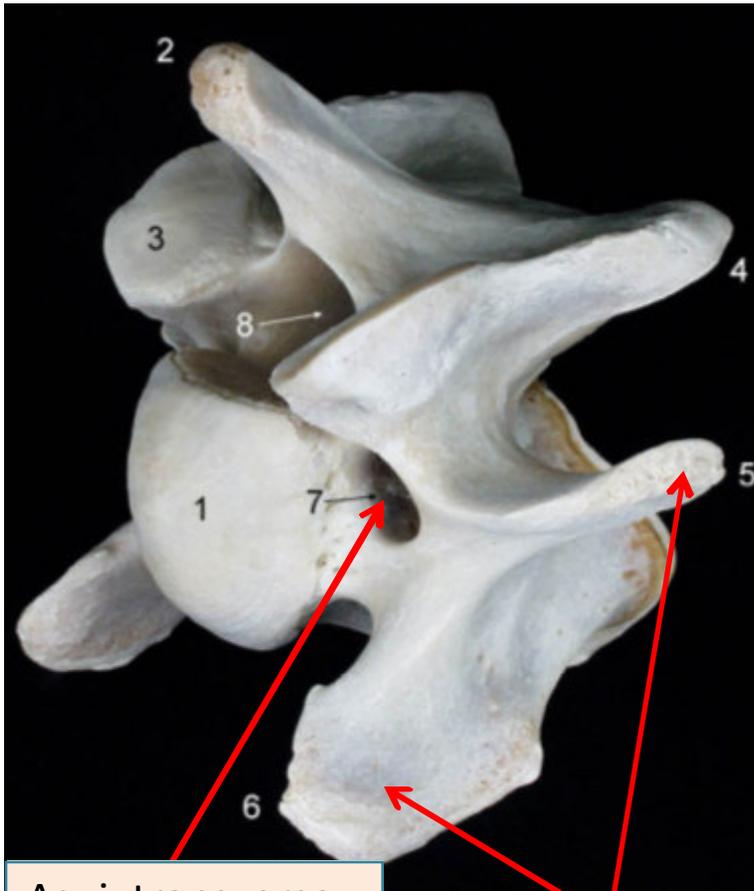
# Atlas (C1)



# Axis (C2)

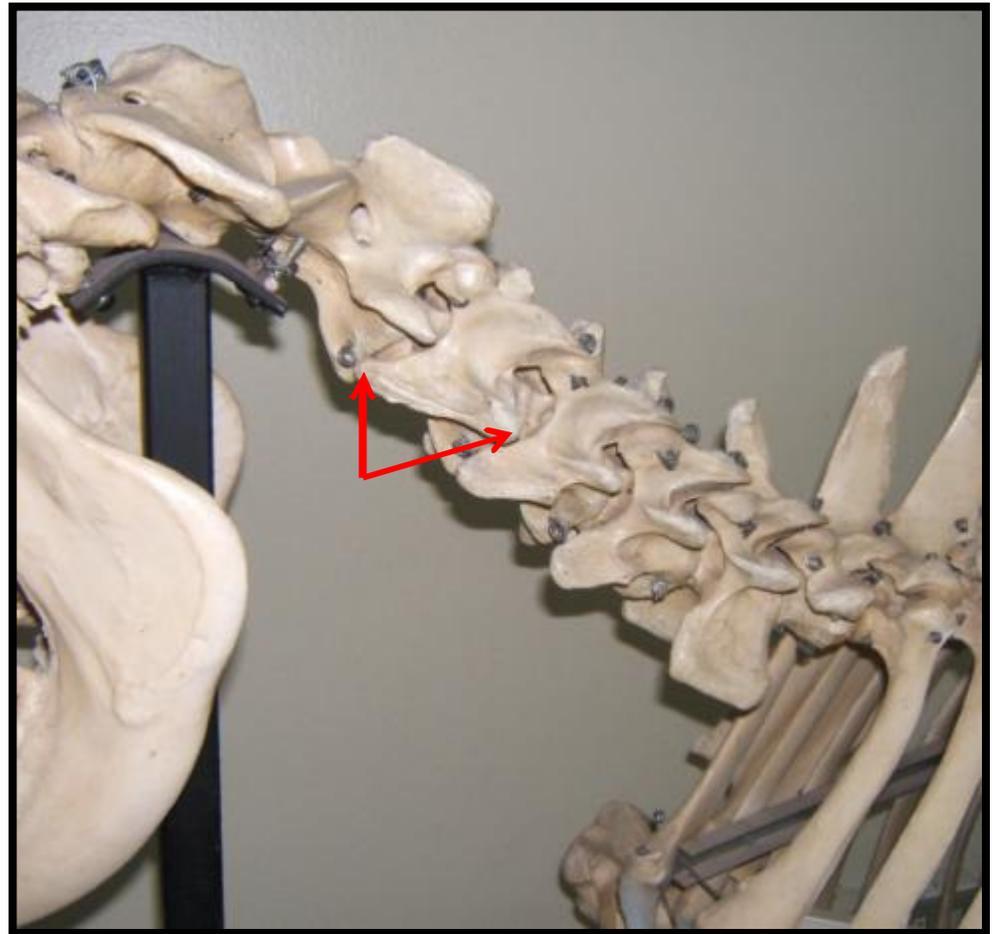


# C3-4-5



Aguj. transverso

Proc. transverso



# C6



Lámina ventral

# C7

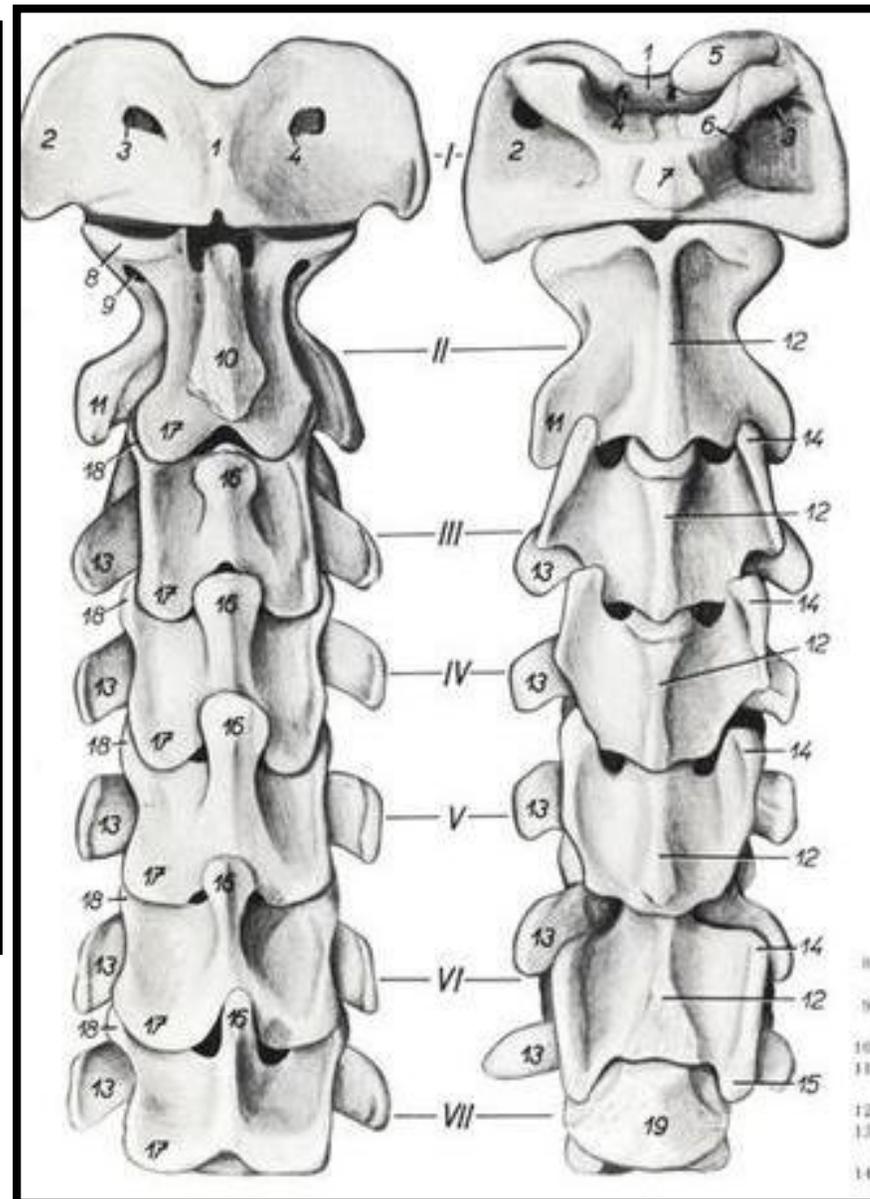
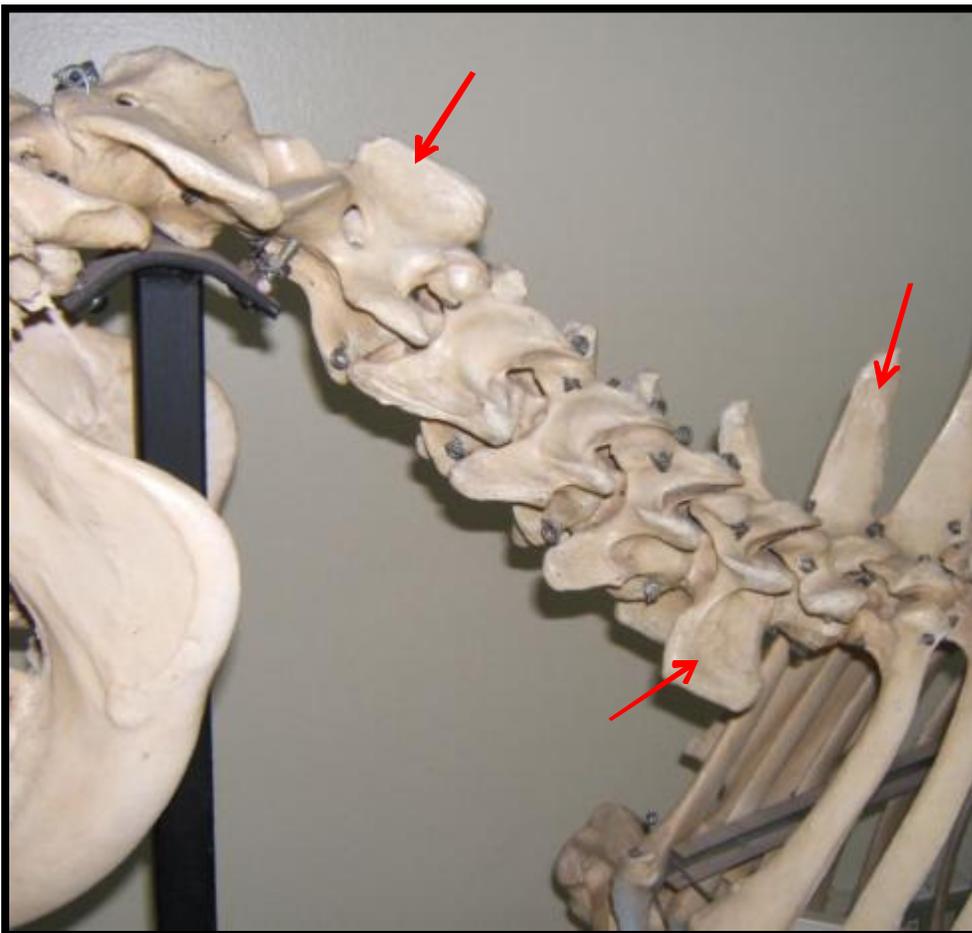


Fosita costal caudal

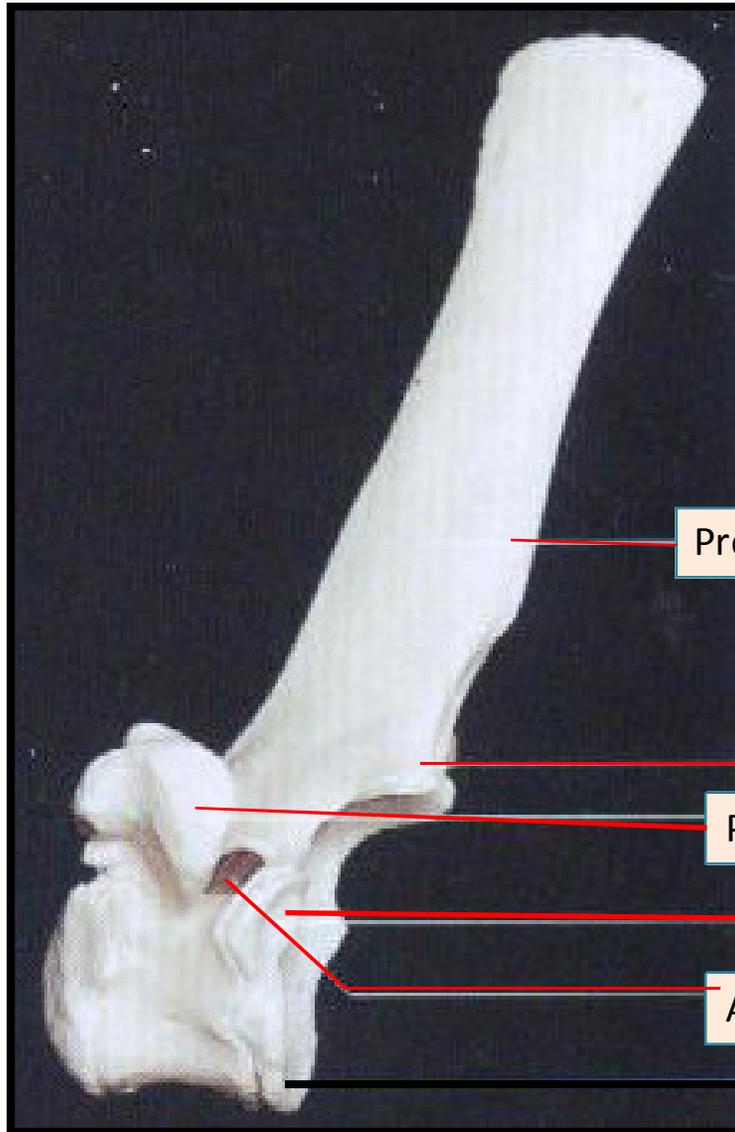
Proc. Transverso simple.  
Ausencia aguj. Transverso.  
Proc. Espinoso muy desarrollado.  
Fosita costal caudal.



# Segmento cervical



# Segmento torácico



Proc. espinoso

Proc. Articular caudal

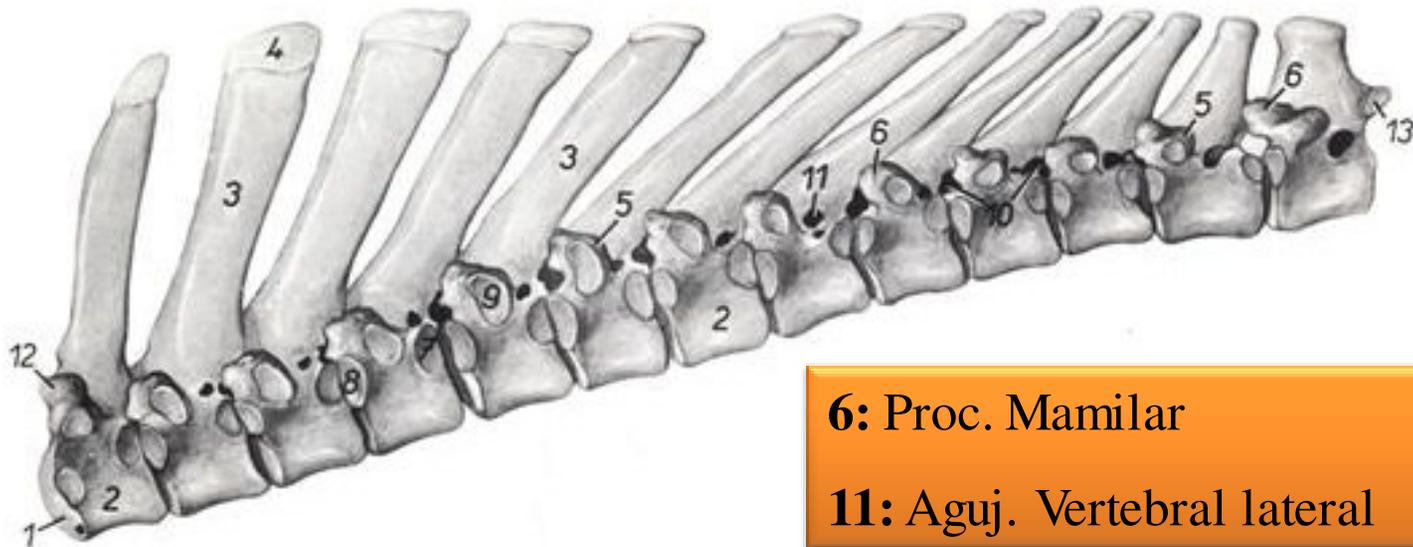
Proc. transverso

Fosita costal caudal

Aguj. Vertebral lateral



# Segmento torácico

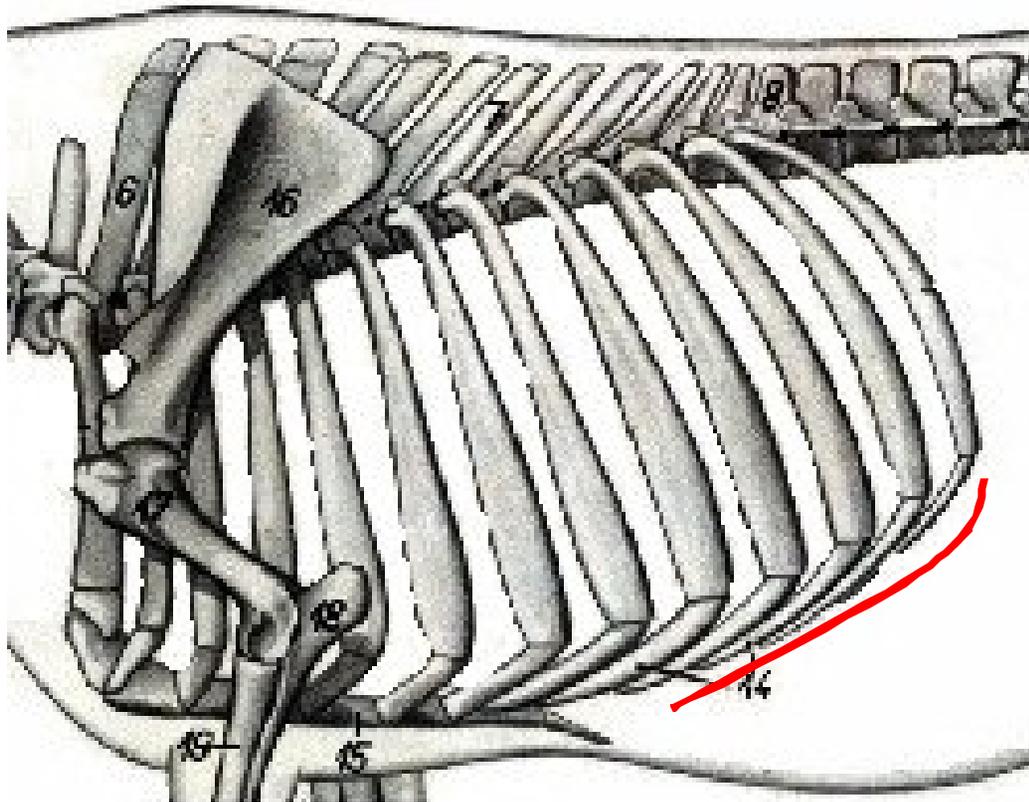


**6:** Proc. Mamilar

**11:** Aguj. Vertebral lateral



# Tórax



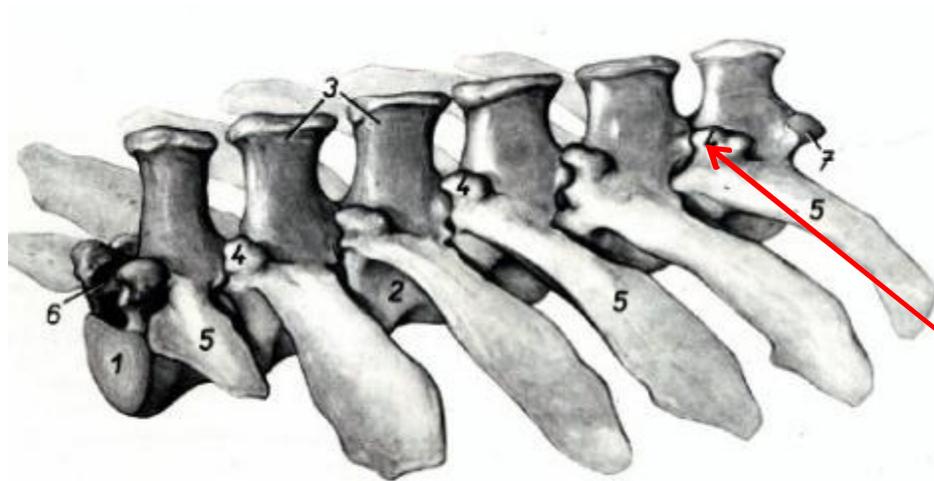
**8** pares de costillas esternales.

**5** pares de costillas asternales (falsas). Arco costal.

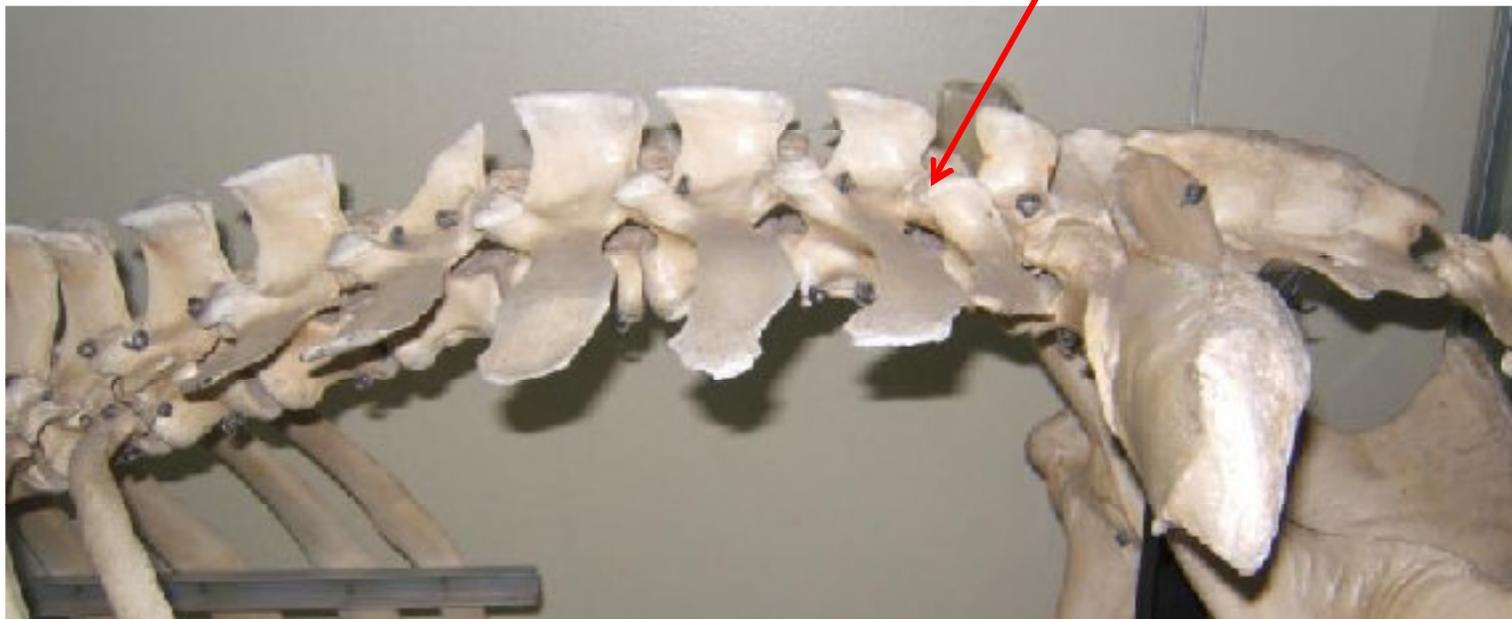
# Tórax: Esternón



# Segmento lumbar



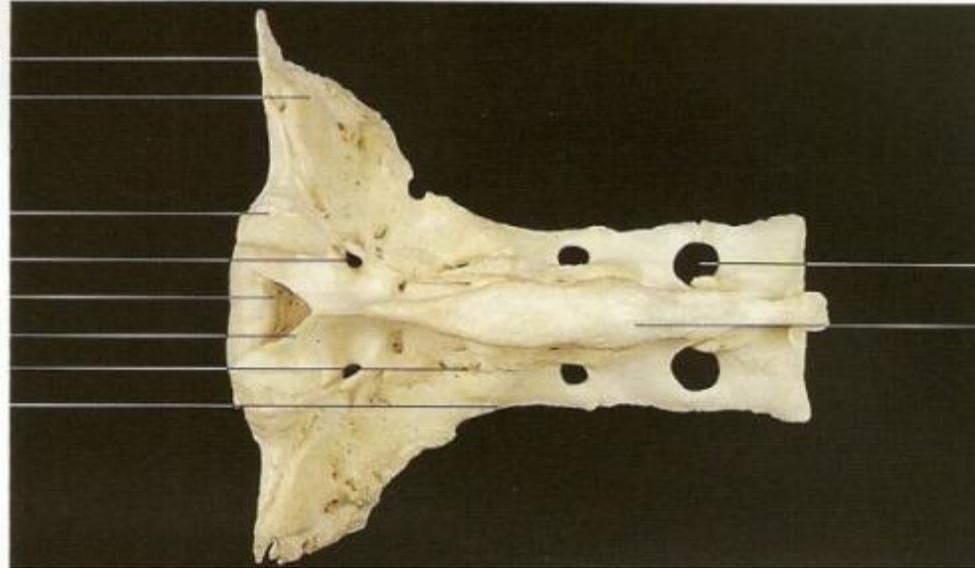
Proc. mamilar



# Segmento sacro

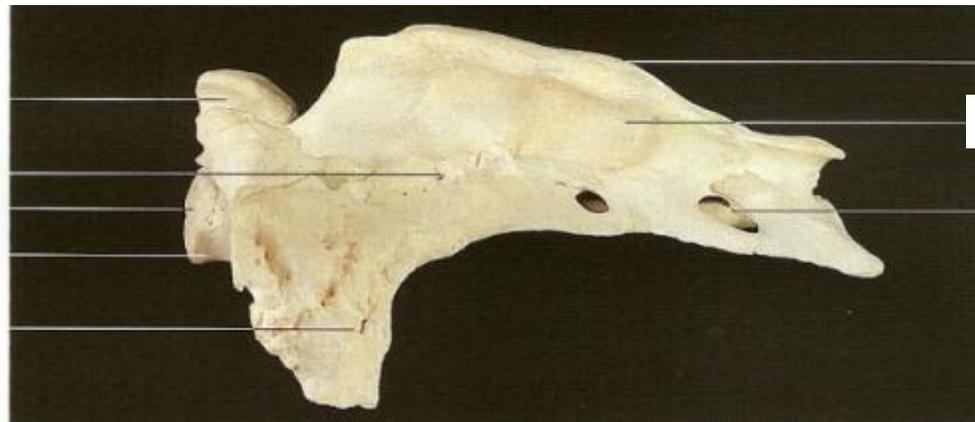
Cara articular  
Ala del sacro con cara auricular

Proc. articular craneal  
Agujero sacro dorsal  
Agujero vertebral  
Arco vertebral  
Cresta sacra intermedia  
Cresta sacra lateral



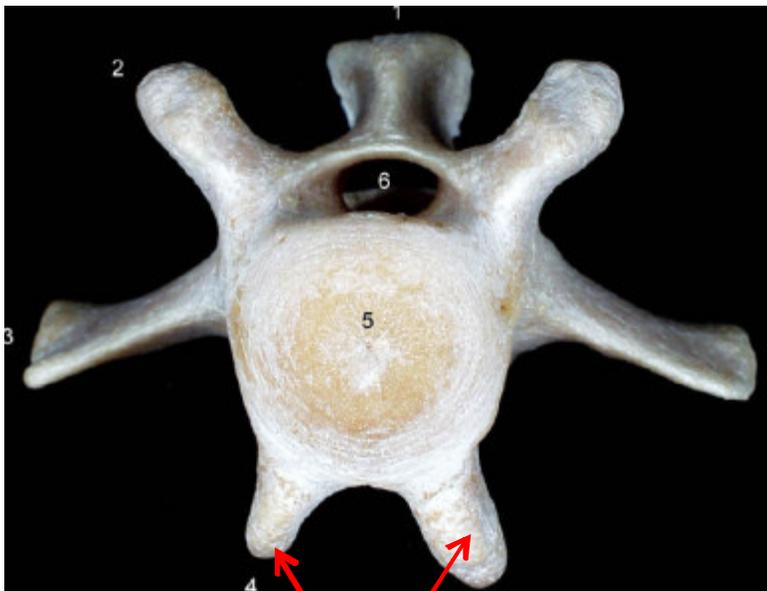
Agujero sacro dorsal  
Cresta sacra mediana

Proc. articular craneal  
Cresta sacra intermedia  
Extremidad craneal  
Promontorio  
Ala del sacro con cara auricular

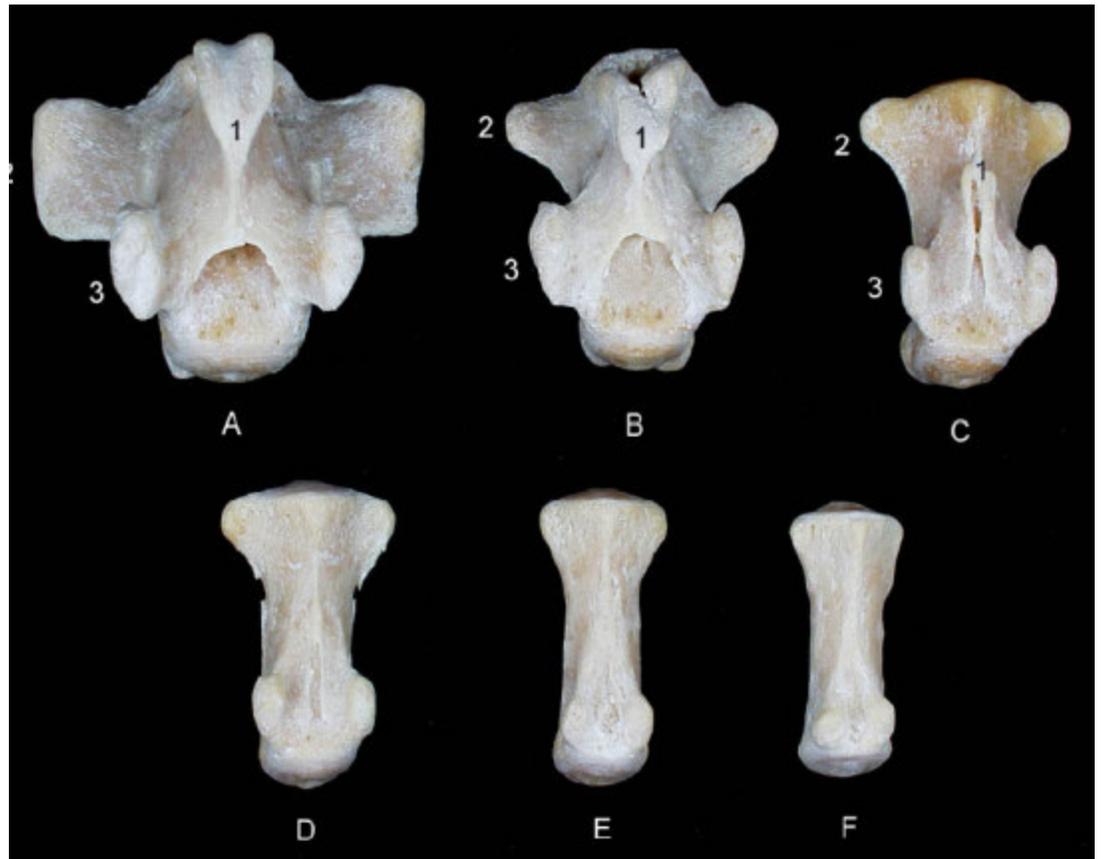


Cresta sacra mediana  
Proc. espinosa  
Agujero sacro dorsal

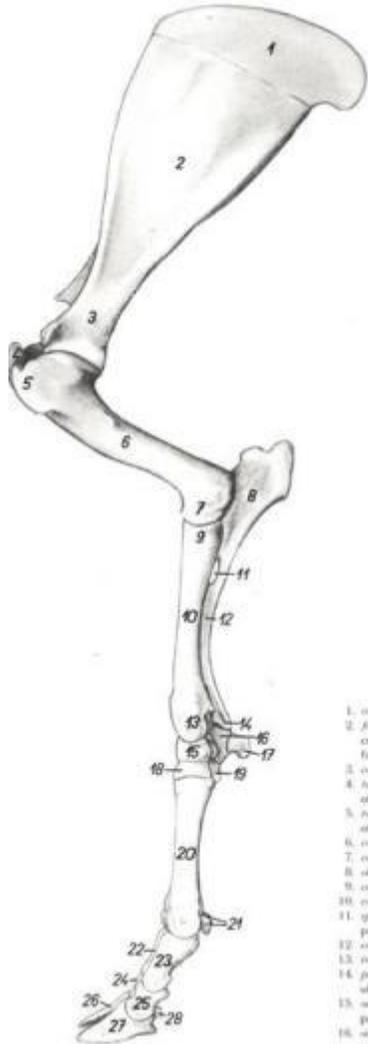
# Segmento coccígeo



Proc. hemales



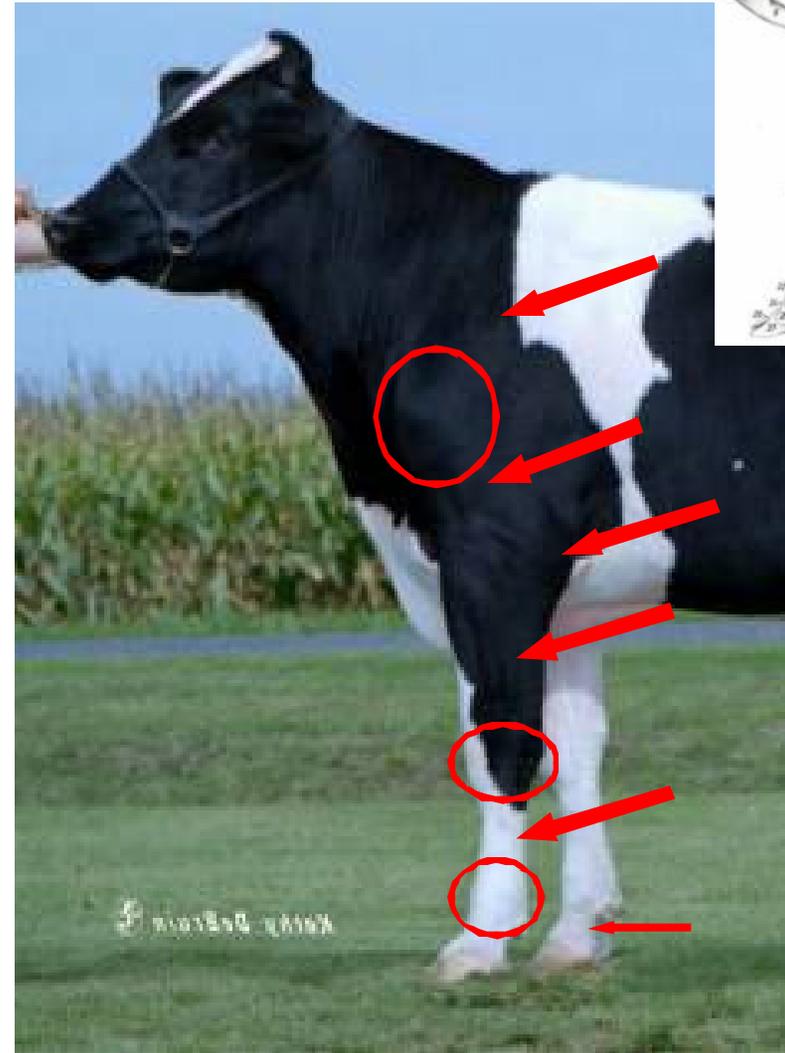
# “Osteología mb. Torácico”



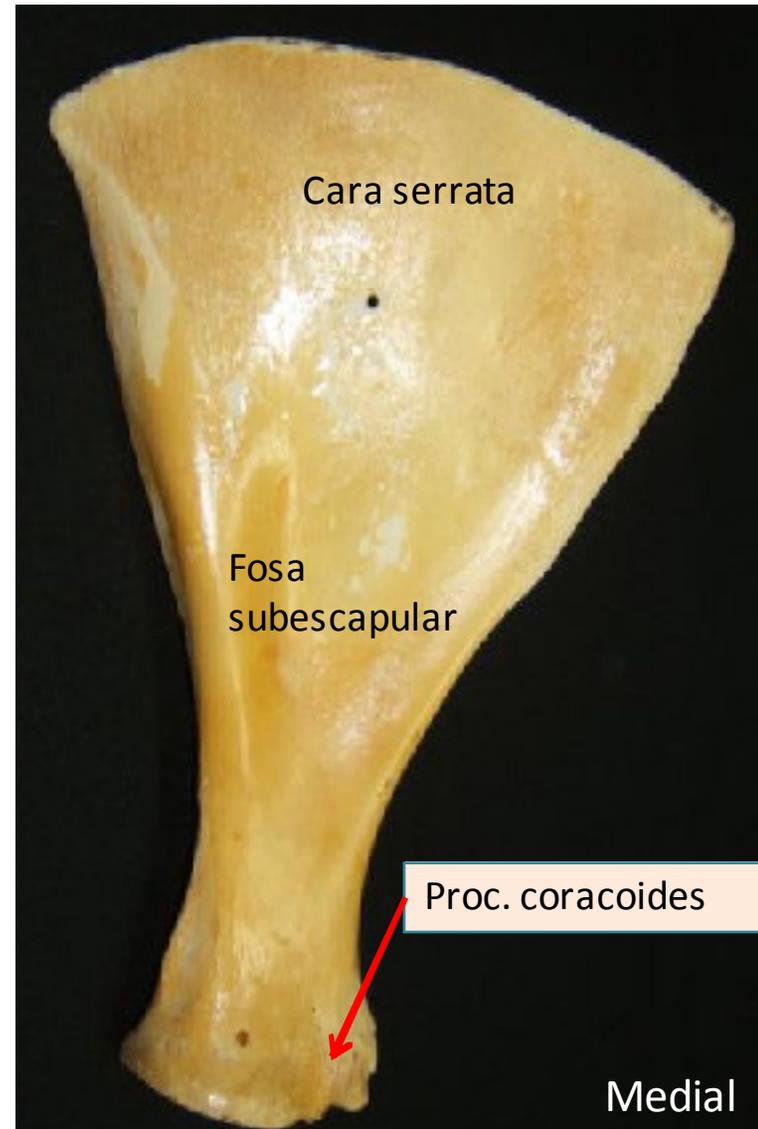
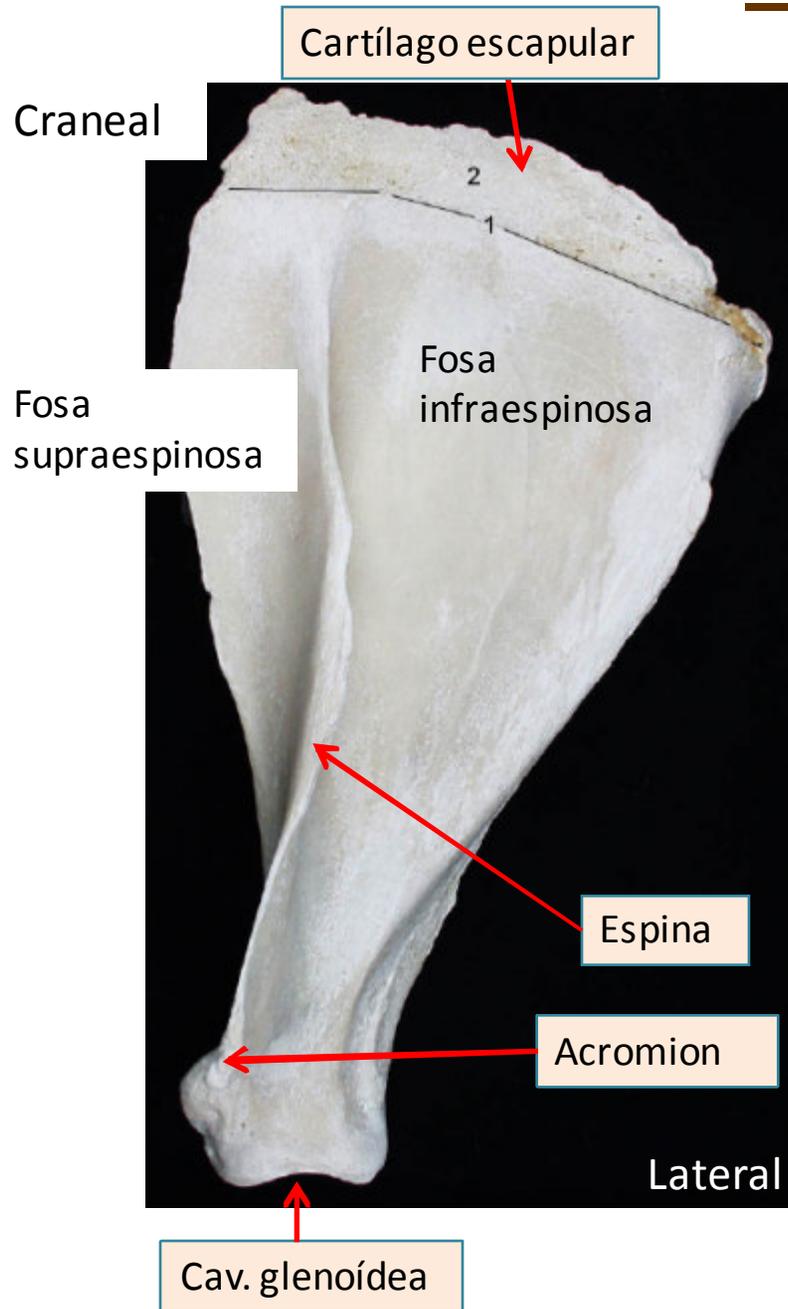
- 1. caput
- 2. tuberculum
- 3. fovea
- 4. collum
- 5. tuberculum
- 6. corpus
- 7. caput
- 8. olecranon
- 9. corpus
- 10. corpus
- 11. spina
- 12. corpus
- 13. olecranon
- 14. procrura
- 15. olecranon
- 16. olecranon
- 17. olecranon
- 18. olecranon
- 19. olecranon
- 20. olecranon
- 21. olecranon
- 22. olecranon
- 23. olecranon
- 24. olecranon
- 25. olecranon
- 26. olecranon
- 27. olecranon
- 28. olecranon

# Topografía

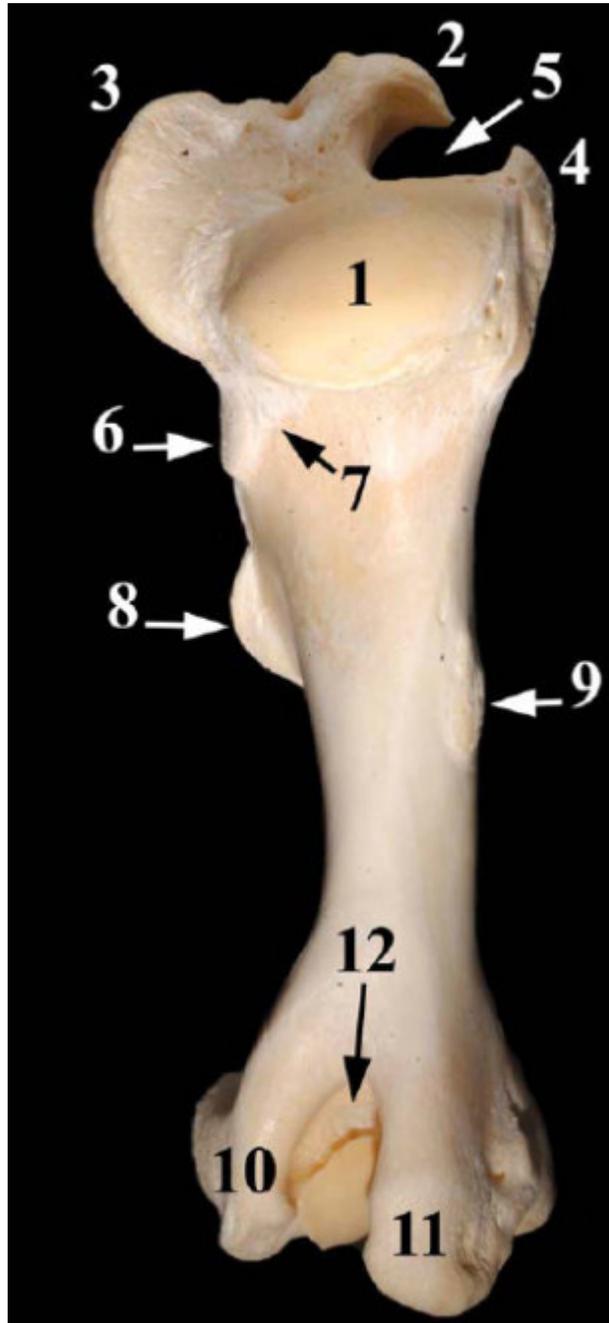
- Escapular
- Hombro
- Braquial
- Codo
- Antebraquial
- Carpo
- Metacarpo
- Art. Mtc-Fg
- Dedos



# Escápula



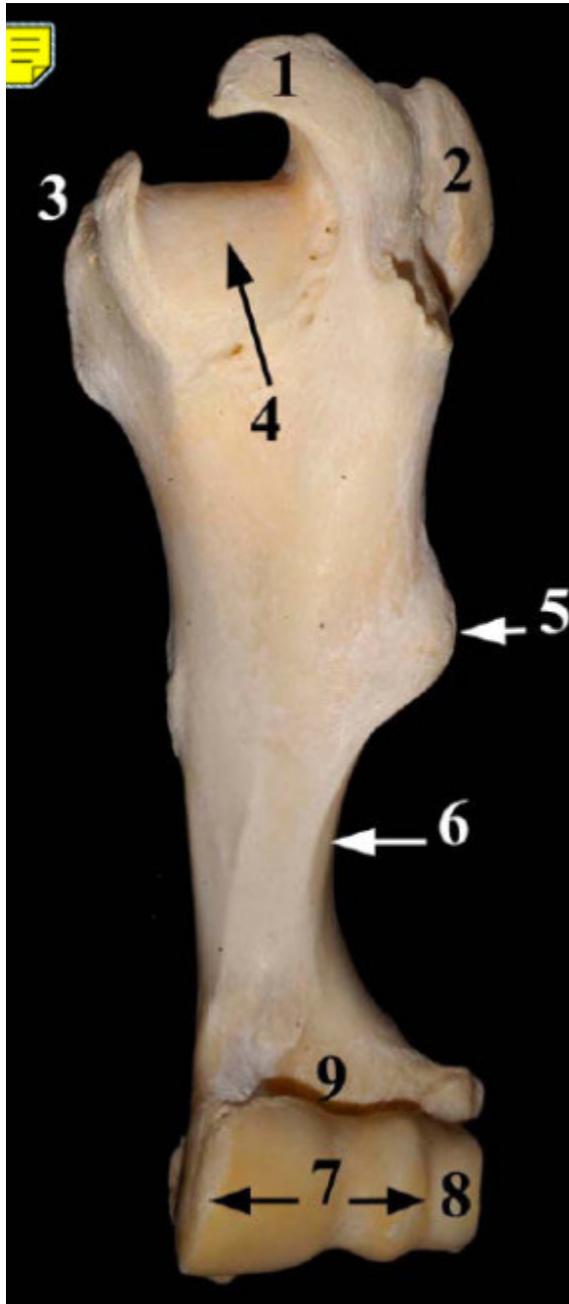
# Húmero



Húmero izquierdo de bóvido, visión caudal:

- 1- Cabeza del húmero
- 2- Tubérculo mayor Porción craneal
- 3- Tubérculo mayor Porción caudal
- 4- Tubérculo menor Porción craneal
- 5- Surco intertubercular:
- 6- Tuberosidad para el M. redondo menor
- 7- Línea tricipital
- 8- Tuberosidad deltoidea
- 9- Tuberosidad para el M. redondo mayor
- 10- Epicóndilo lateral
- 11- Epicóndilo medial
- 12- Fosa del olécranon

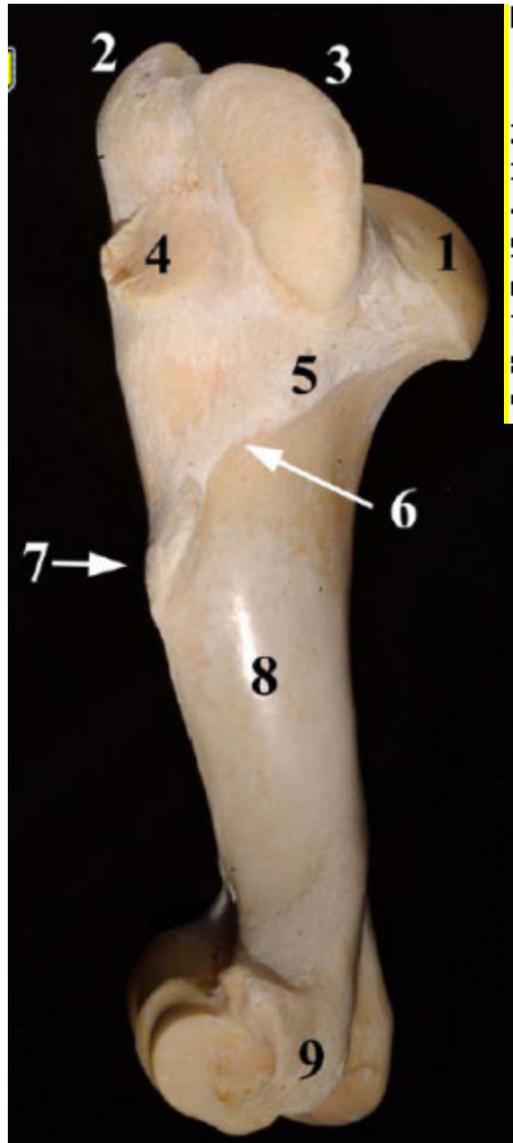
# Húmero



Húmero izquierdo de bóvido, visión craneal:

- 1- Tubérculo mayor Porción craneal
- 2- Tubérculo mayor Porción caudal
- 3- Tubérculo menor
- 4- Surco intertubercular
- 5- Tuberosidad deltoidea
- 6- Cresta del húmero
- 7- Tróclea del húmero
- 8- Capítulo del húmero
- 9- Fosa radial

# Húmero



Húmero de bóvido, visión lateral:

- 1- Cabeza del húmero
- 2- Tubérculo mayor Porción craneal
- 3- Tubérculo mayor Porción caudal
- 4- Cara para el M. infraespinoso
- 5- Tuberosidad para el M. redondo menor
- 6- Línea tricpital
- 7- Tuberosidad deltoidea
- 8- Surco del M. braquial
- 9- Epicóndilo lateral



Húmero izquierdo de bóvido, visión medial:

- 1- Cabeza del húmero
- 2- Cuello del húmero
- 3- Tubérculo menor Porción craneal
- 4- Tubérculo menor Porción caudal
- 5- Tubérculo mayor Porción craneal
- 6- Tubérculo mayor Porción caudal
- 7- Tuberosidad para el M. redondo mayor
- 8- Epicóndilo medial

# Radio - Ulna



Incisura troclear



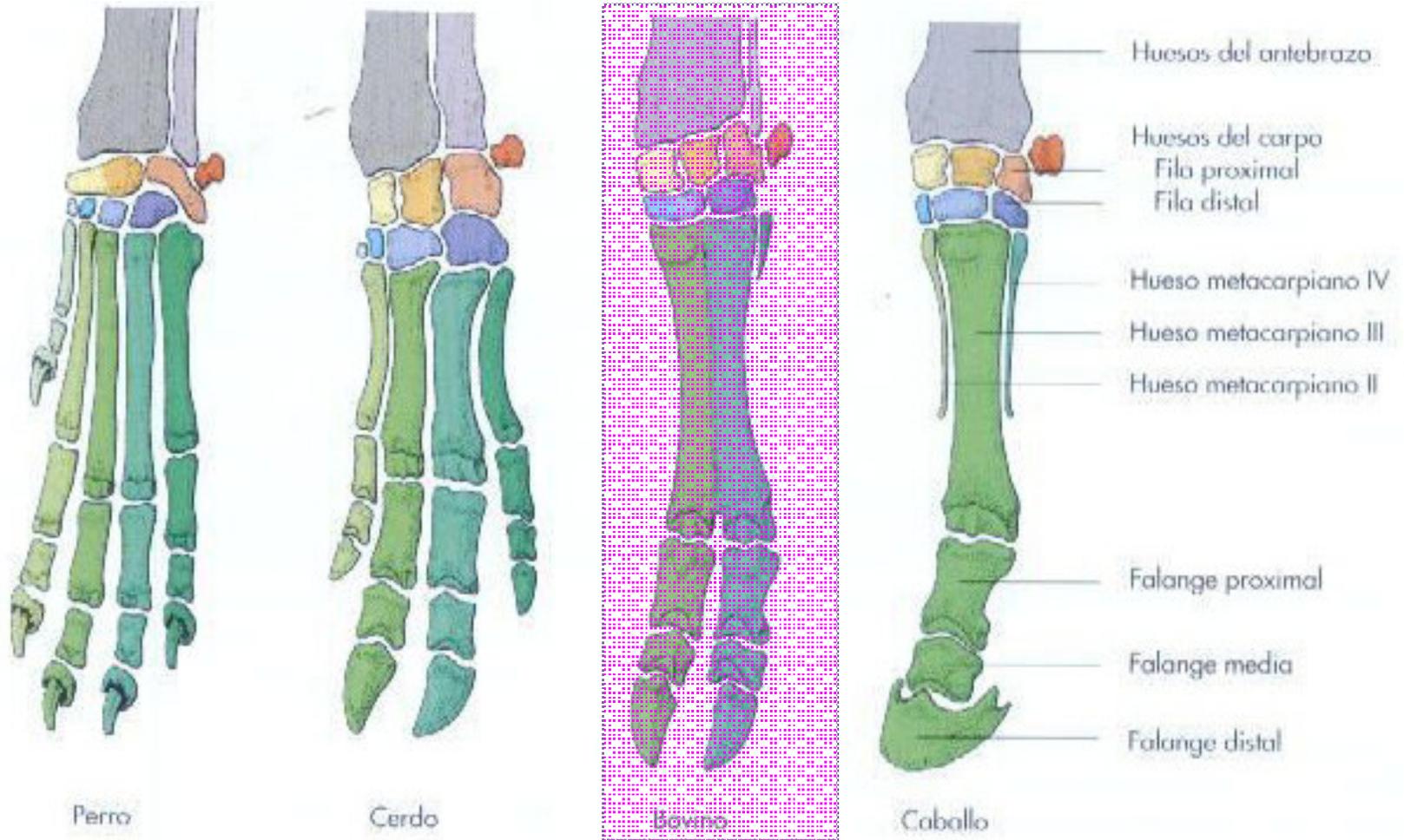
Tuberosidad olecraneana

Espacio interóseo

Proc. Estiloídeo medial

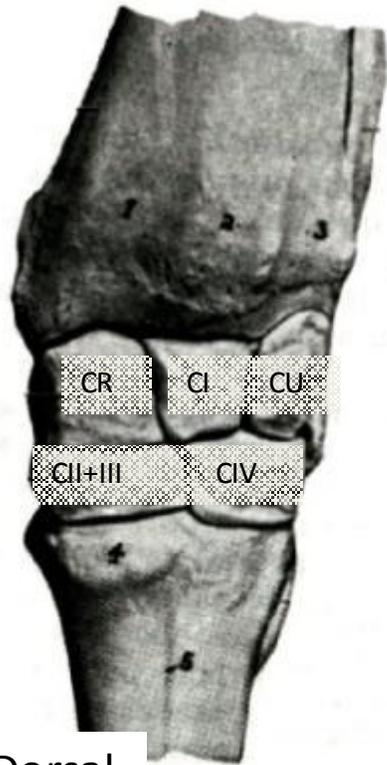
Proc. Estiloídeo lateral

# R. mano

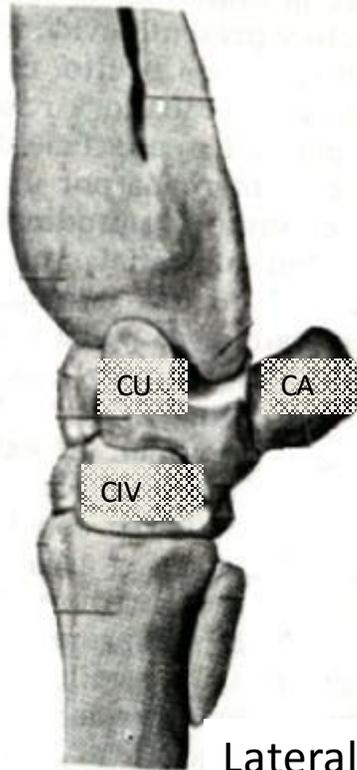


 Radio	 Hueso accesario del carpo (pisiforme)	 Hueso metacarpiano I y huesos del primer dedo
 Cúbito	 Hueso carpal I (trapezio)	 Hueso metacarpiano II y huesos del segundo dedo
 Hueso carporradial (escafoides)	 Hueso carpal II (trapezoide)	 Hueso metacarpiano III y huesos del tercer dedo
 Hueso carpal intermedio (semilunar)	 Hueso carpal III (grande)	 Hueso metacarpiano IV y huesos del cuarto dedo
 Hueso carpocubital (piramidal)	 Hueso carpal IV (ganchoso)	 Hueso metacarpiano V y huesos del quinto dedo

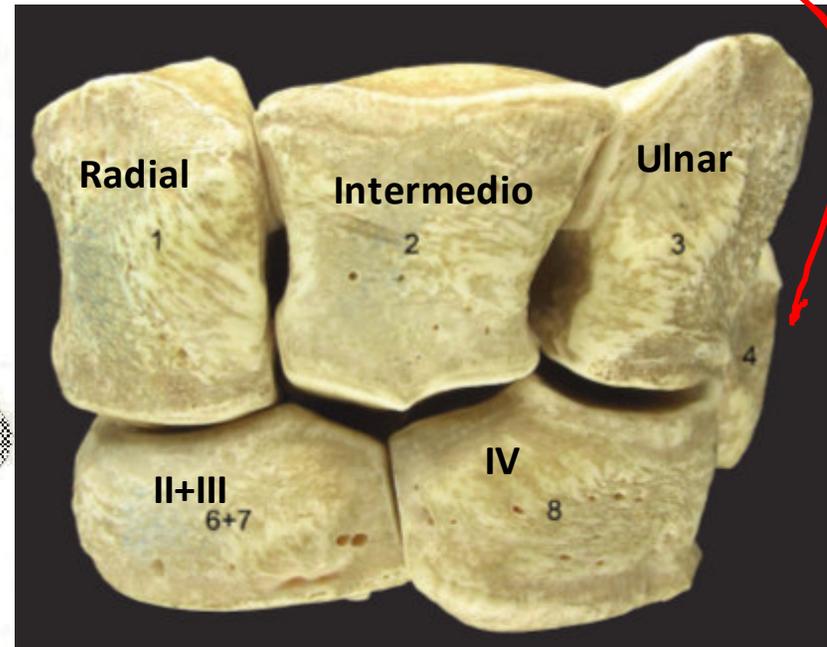
# Mano: Carpo



Dorsal

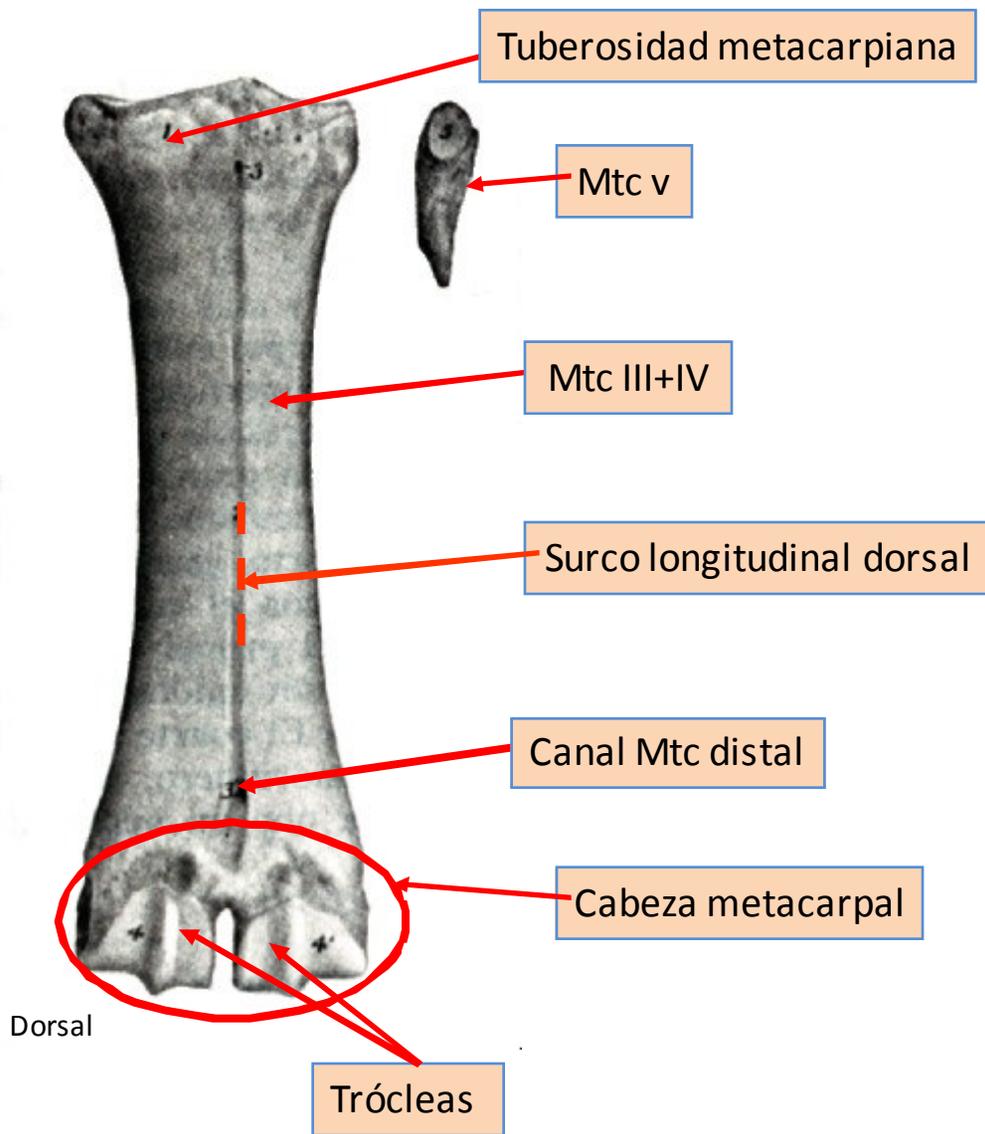


Lateral

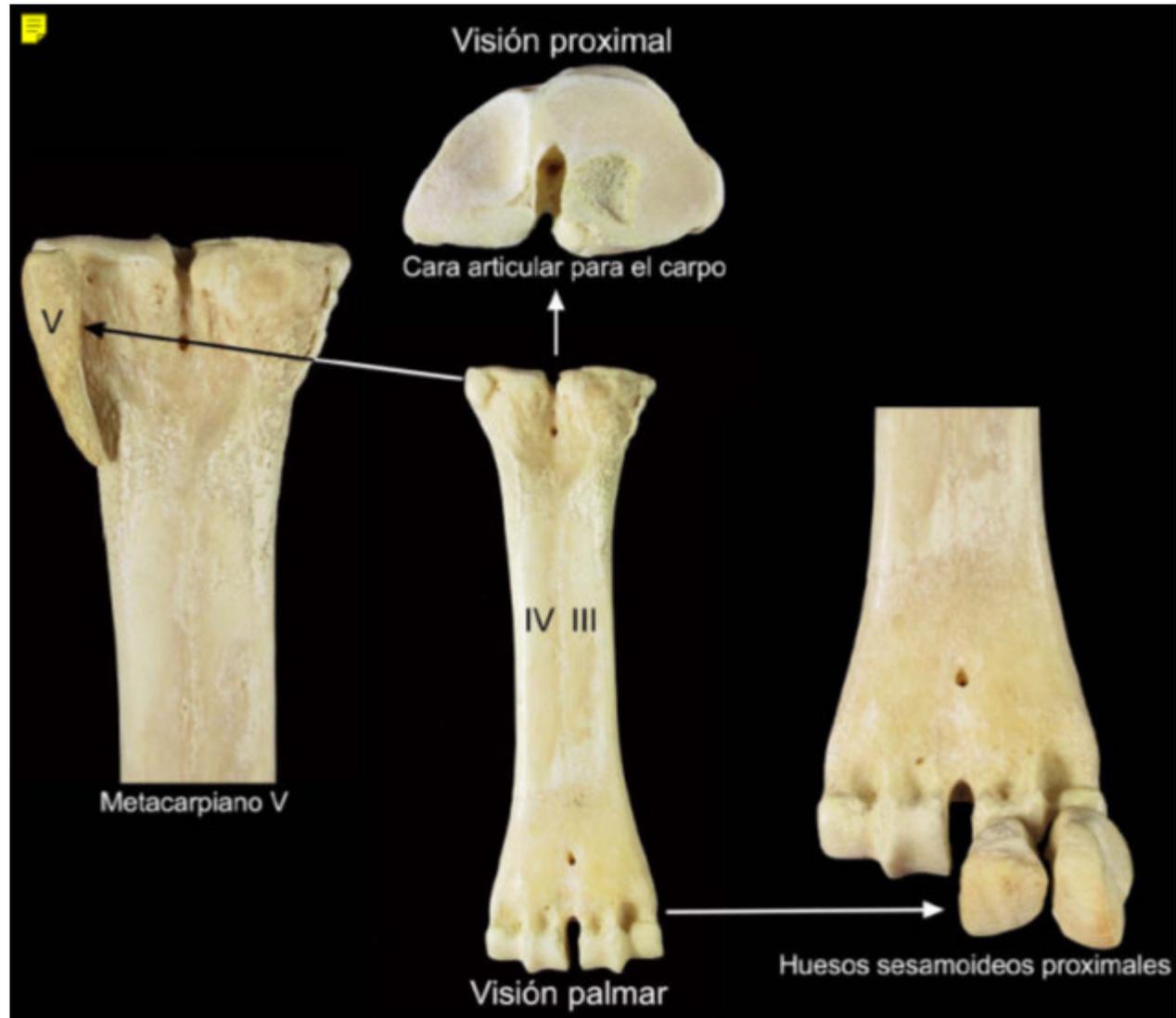


Accesorio

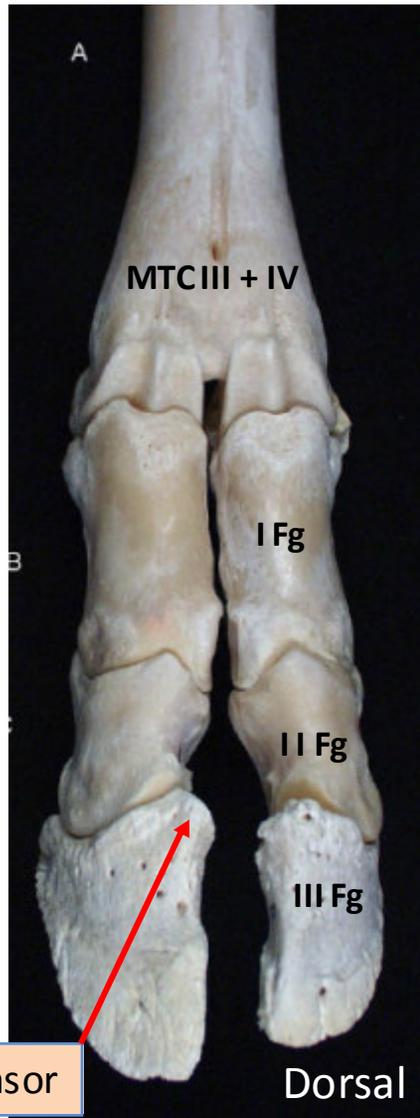
# Mano: Metacarpo



# Mano: Metacarpo



# Mano: Dedos



P. Extensor

Dorsal

Sesamoídeos proximales

Sesamoídeo distal

Sup. flexora



Palmar



D

C

B

A

E

F

# PEZUÑAS

