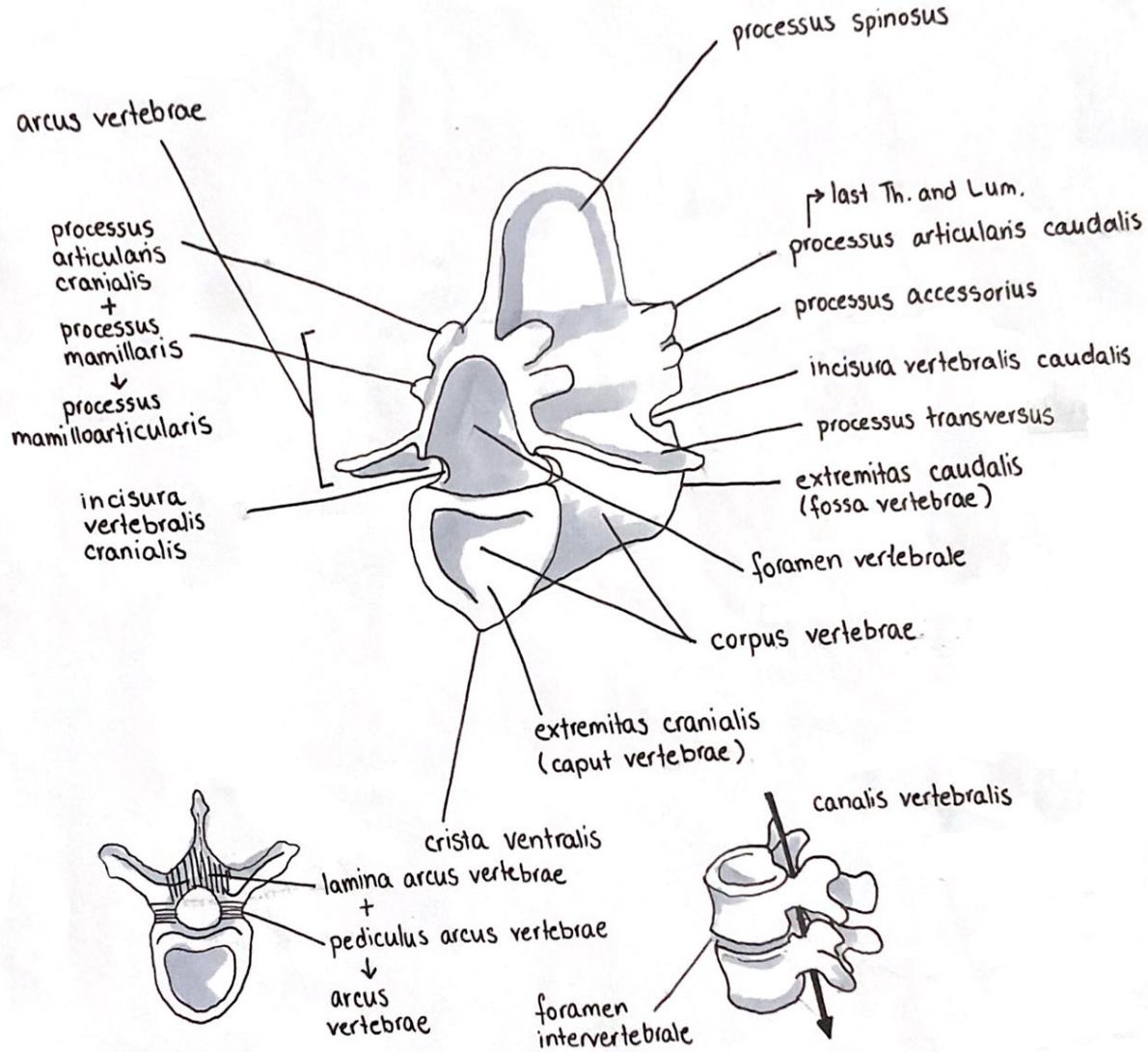


# VERTEBRAE

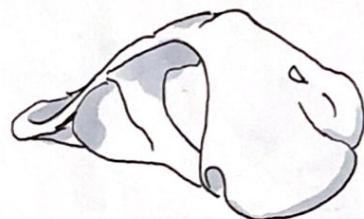
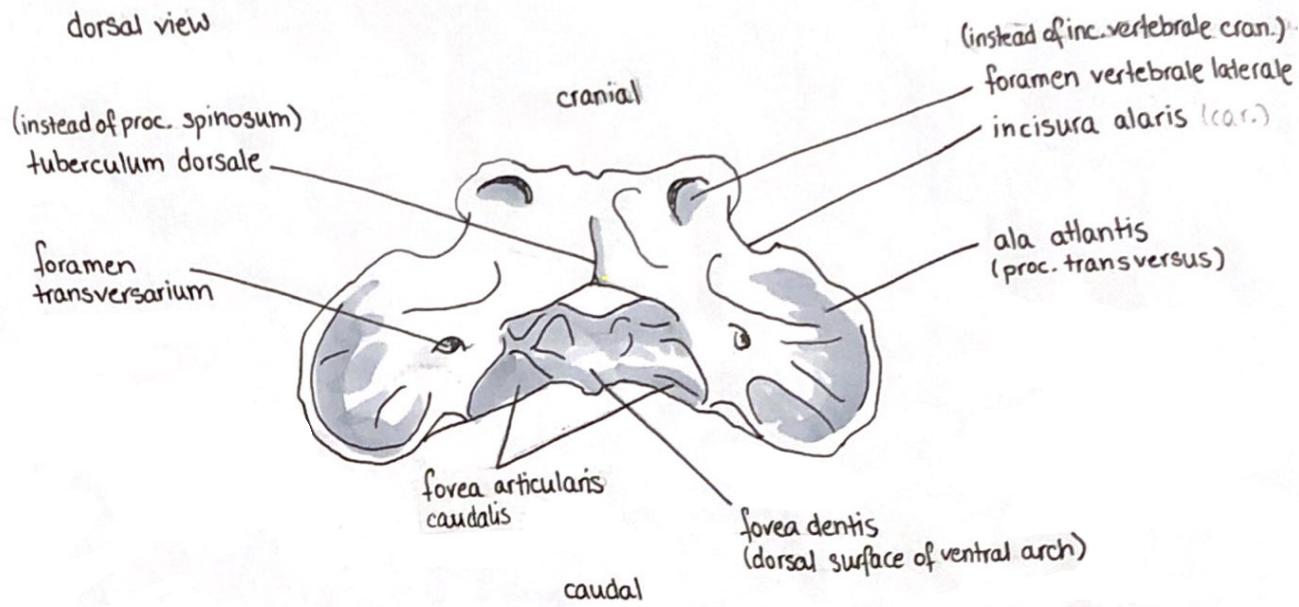


# ATLAS, C1

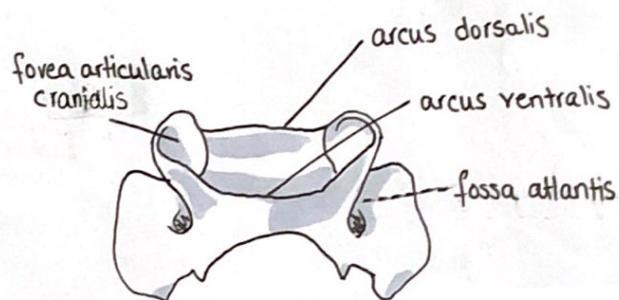
↳ the atlas has no corpus

## Carnivore:

dorsal view



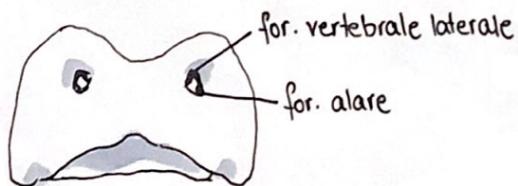
postlateral view



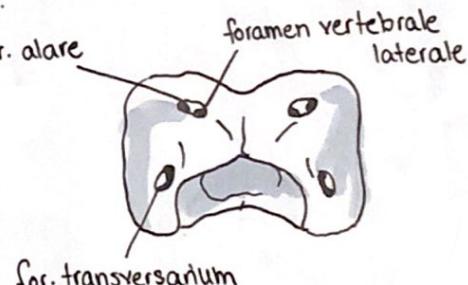
ventral view

## Ruminants:

- ↳ do not have for. transversarium
- ↳ have for. vertebrale laterale and for. alare



## Equine:

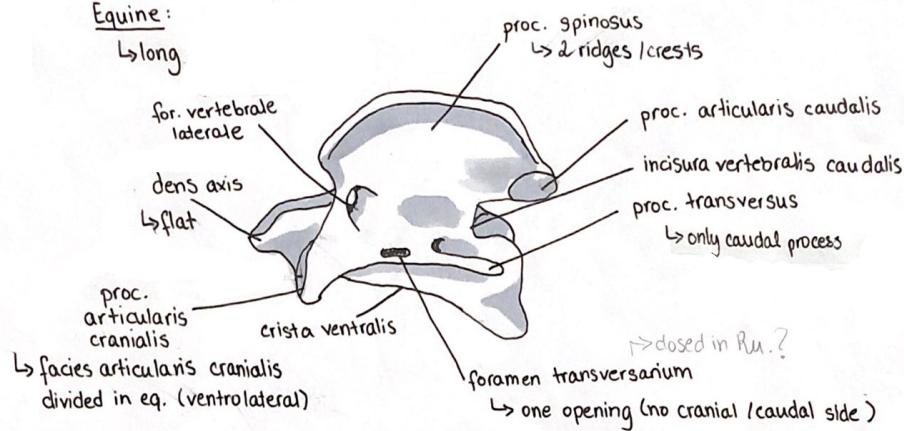


## AXIS C2

- ↳ long body
- ↳ prominent crista ventralis (continues on all cervical vertebrae)

### Equine:

- ↳ long

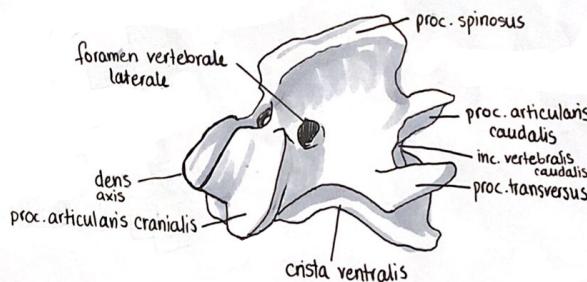


### Ruminant:

- ↳ high

- ↳ facies articularis cranialis connected

- ↳ rounded dens



### Carnivore:

- ↳ no foramen vertebrale laterale

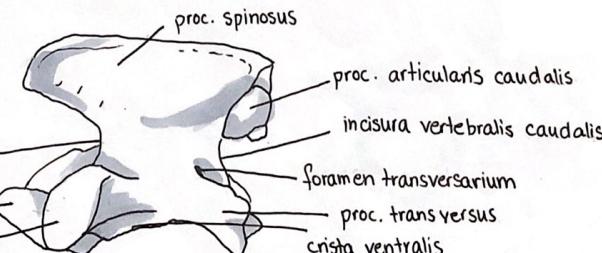
incisura vertebralis cranialis (ca)

dens axis

proc. articularis cranialis  
↳ lateral to dens

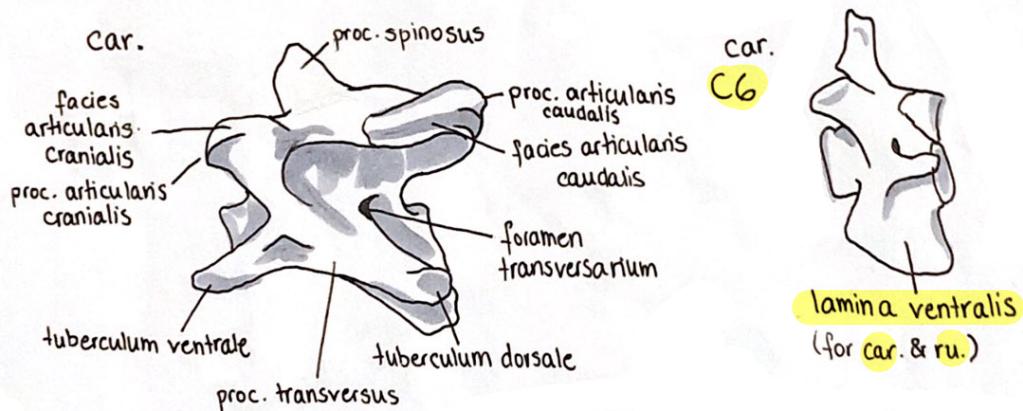
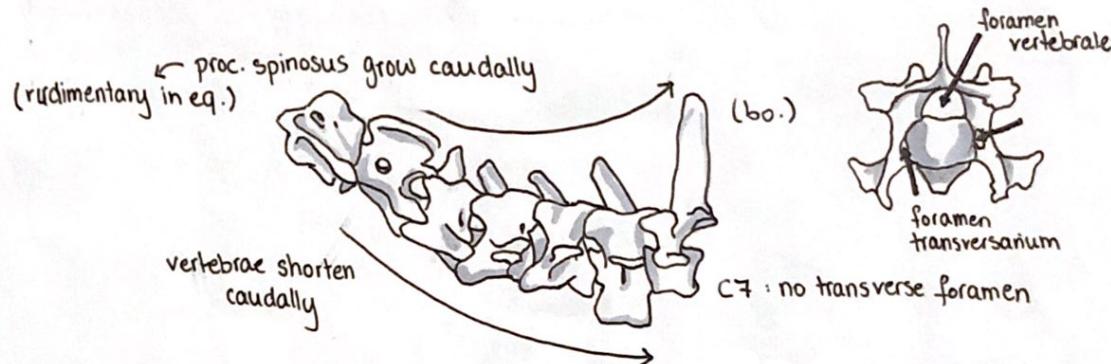
- ↳ only car. have incisura vertebralis cranialis

- ↳ proc. spinosus extends cranially and caudally

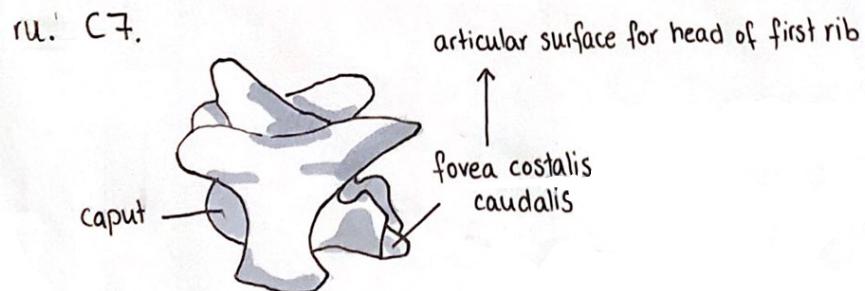


# VERTEBRAE CERVICALES C<sub>3</sub>-C<sub>7</sub>

- ↳ all mammals have 7 cervical vertebrae
- ↳ can be recognized when there are 3 holes cranially (except for C1 and C7)
- ↳ transverse foramen present in C1 to C6 in eq. and car., and in C2 - C6 in ru.

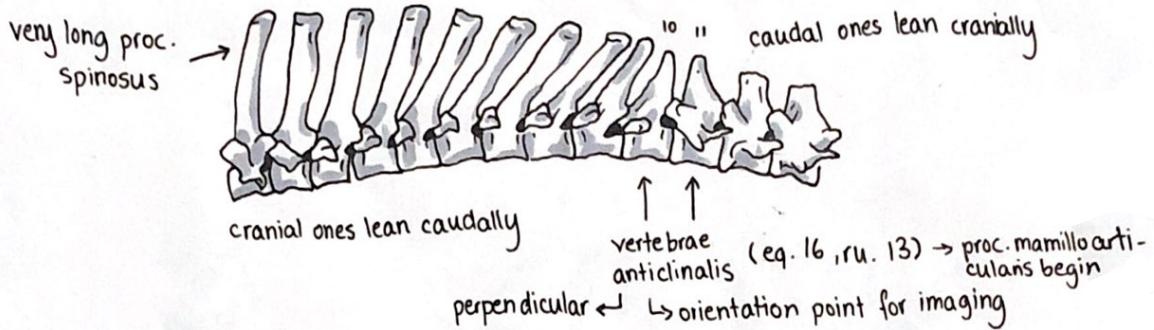


- proc. articulans cranialis & caudalis: large; facies horizontal → lateral neck movement
- incisura vertebralis cranialis & caudalis: deep



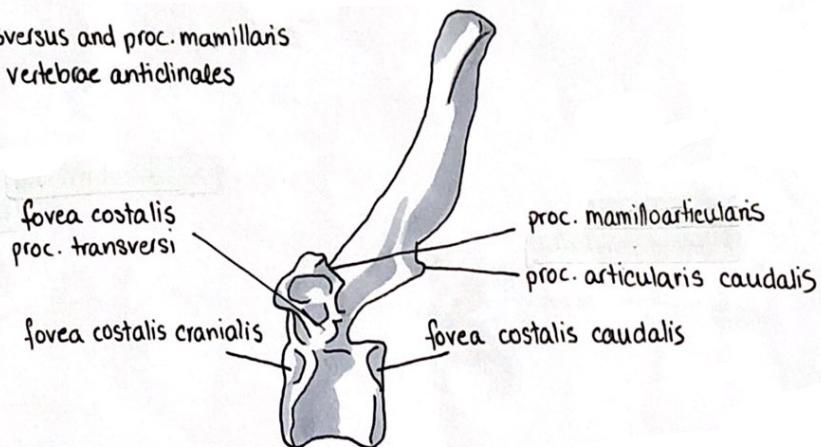
## VERTEBRAE THORACICAE

↳ eq. 18 ru. 13 car.  $\geq 13$ , pigs: 14-15 (wild boar: 13)  
shorter body      ↳ dogs can have pathological hemi vertebrae (extra, underdeveloped)



↳ for. vertebræ laterale : incisura vertebralis caudalis closed (ru., sometimes eq.)

Proc. transversus and proc. mamillaris  
fuse after vertebrae anterodorsales



↳ proc. accessorius : in Car. on Th II → all Lu.

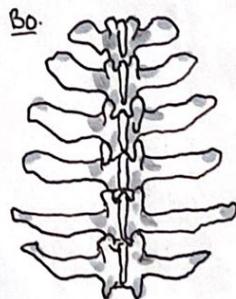
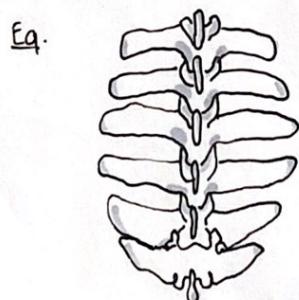
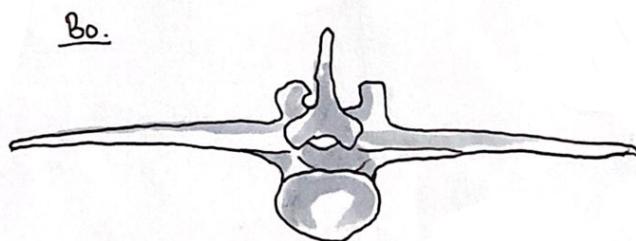
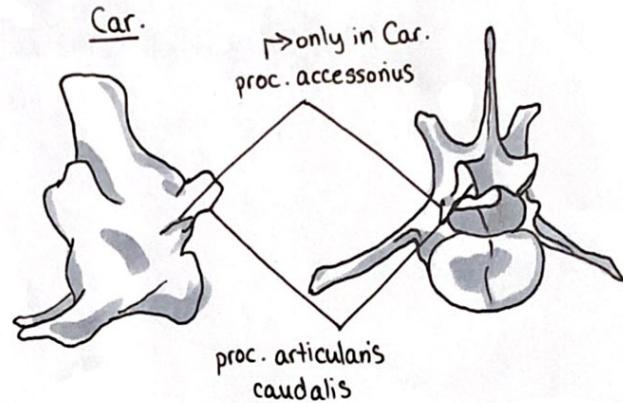
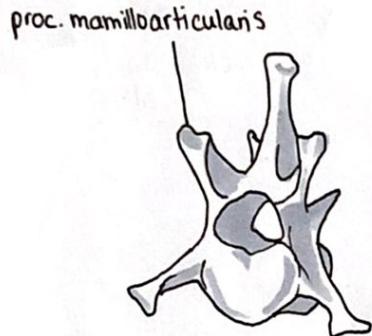
↳ inc. vertebralis cranialis shallow, inc. vertebralis caudalis deep

- can tell equine bc height is 1:3

↳ boring - height 1:1

# VERTEBRAE LUMBALES

- ↳ eq. 6 (some species have 5), ru. 6, car. 7 (sometimes 6 or 8)
  - ↳ for horses that stand / pull carriages all day last lumbar vertebrae may fuse
- ↳ proc. transversus well developed and points in cranial ventral lateral direction in Car.
  - ↳ long, flat, lateral in eq., or with facies cranially and caudally
  - ↳ cranial lateral in ru.

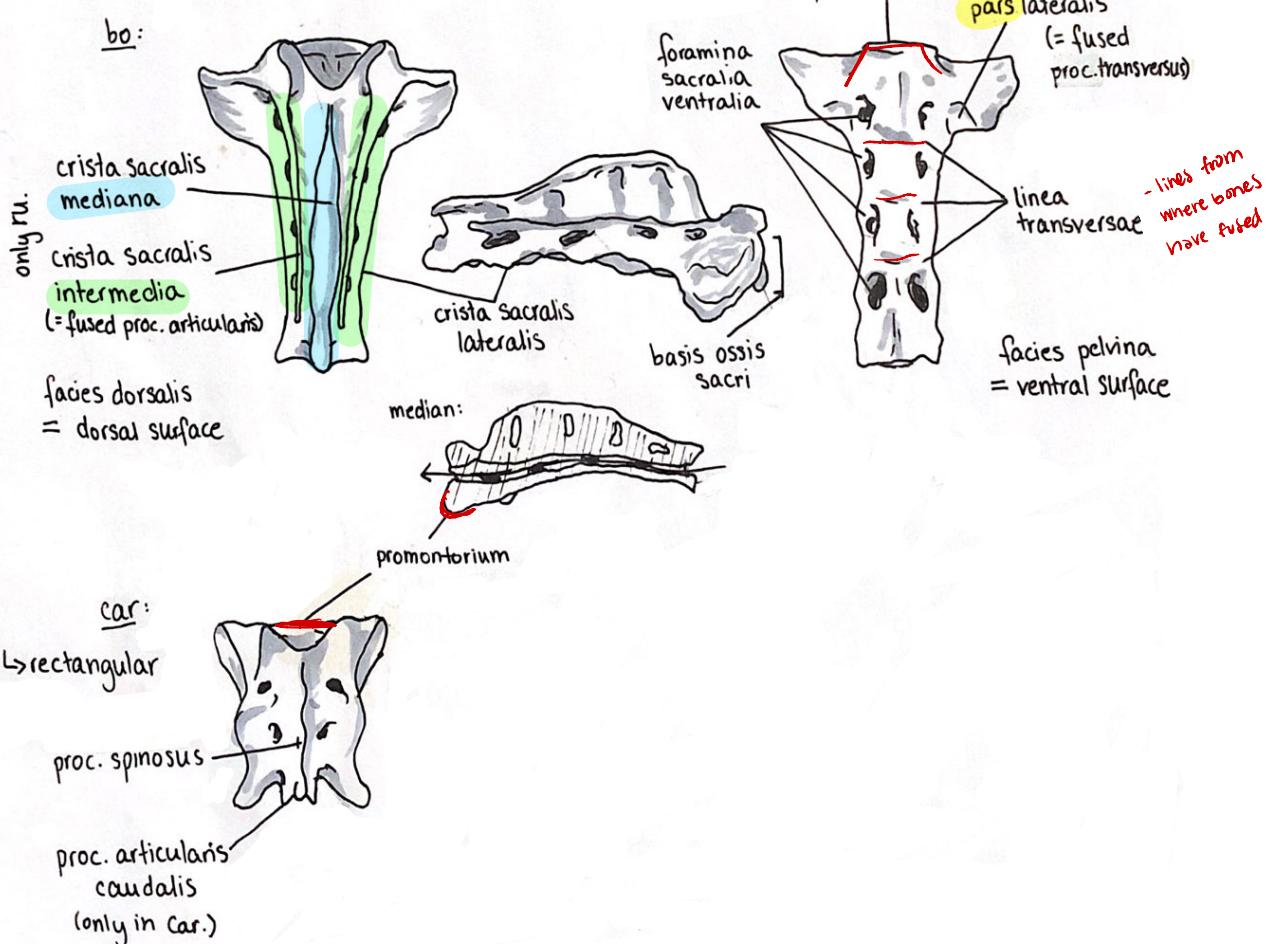
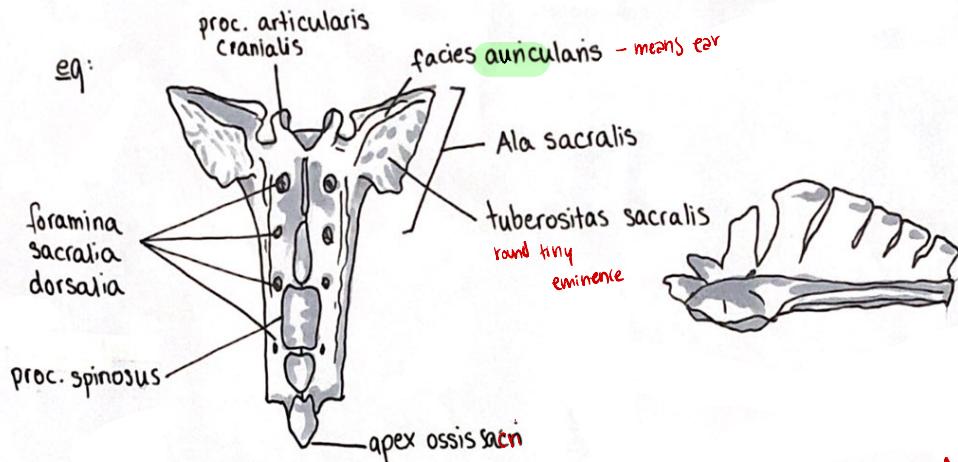


# VERTEBRAE SACRALES

(OS SACRUM)

↳ eq. 5, ru. 5, car. 3

↳ formed by the fusion of vertebrae sacrales



↳ foramen intervertebralia : space in between vertebrae, if they are not completely fused

# STERNUM

