

Bone Features

# General Anatomy



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# What is Anatomy?

- Human anatomy is the branch of anatomy that focuses specifically on the structure and organization of the human body. It involves the study of the various systems, organs, and tissues that make up the human body, including their relationships and functions. Human anatomy can be divided into several areas:
  1. **Gross Anatomy:** Examination of structures visible to the naked eye, such as organs and organ systems.
  2. **Microscopic Anatomy:** Study of tissues and cells using microscopes, often involving histology.
  3. **Developmental Anatomy (Embryology):** Exploration of human development from fertilization through growth and maturation.
- Understanding human anatomy is crucial in fields like medicine, healthcare, and biology, as it provides foundational knowledge necessary for diagnosing diseases, performing surgical procedures, and understanding how the body functions as a whole.



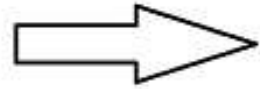
How to live with anatomy  
without forgetting what you  
studied for the 1000th time??

- General rule of thumb :
- Anatomy is all about photomemory  
,so if you want to recall what you  
studied , start with the image then  
comes the text .



# Anatomical position

The Anatomical Position

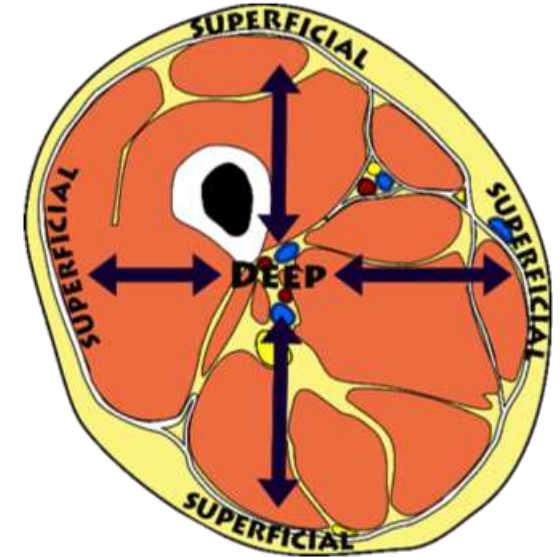
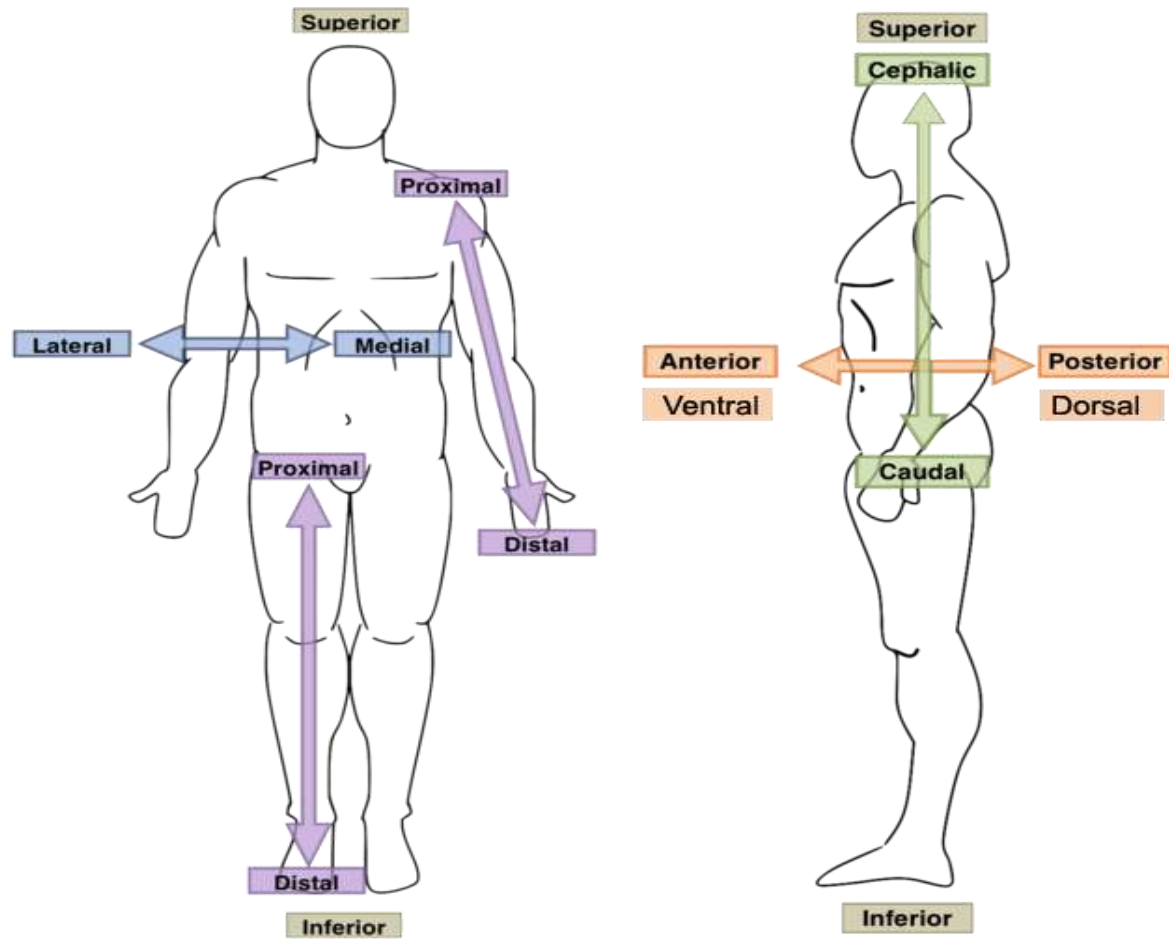


[atke/stationack.com](http://atke/stationack.com)

Always study the directions and relations when the body is in this position.



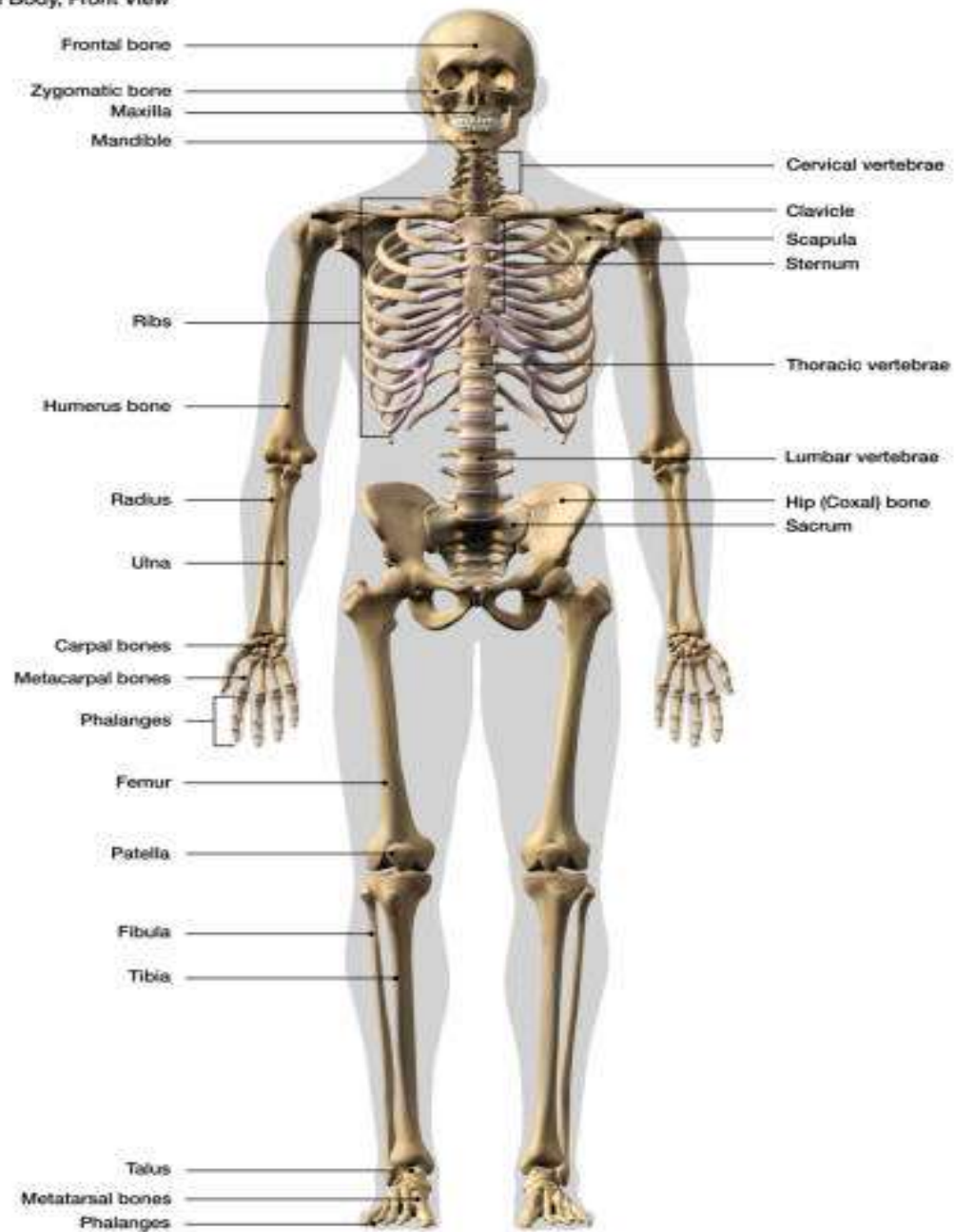
# Medical directions:



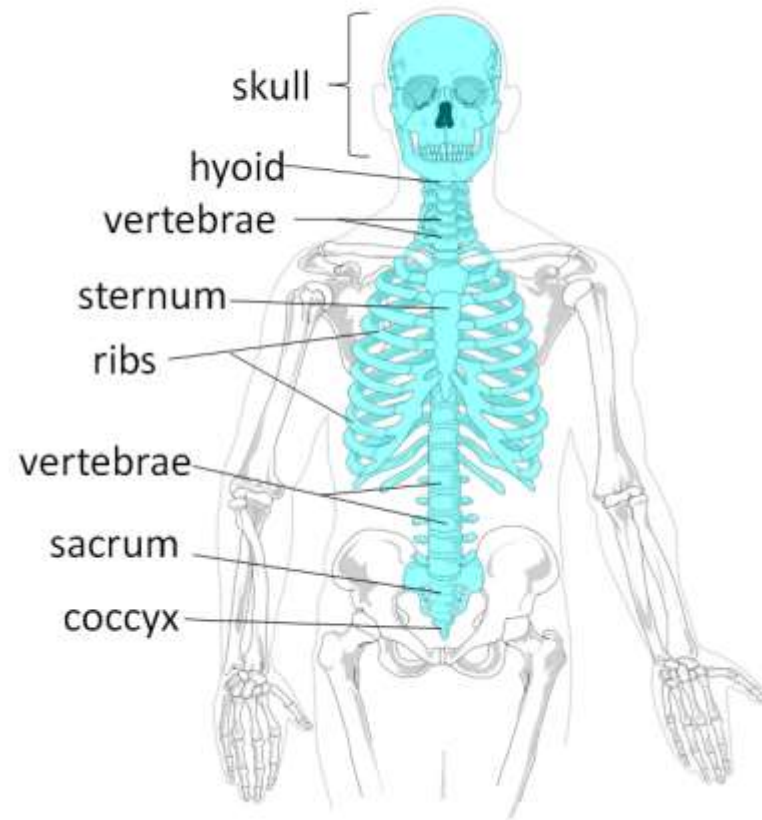
## Body bones:

the human body has 206 bones. You should know their names.

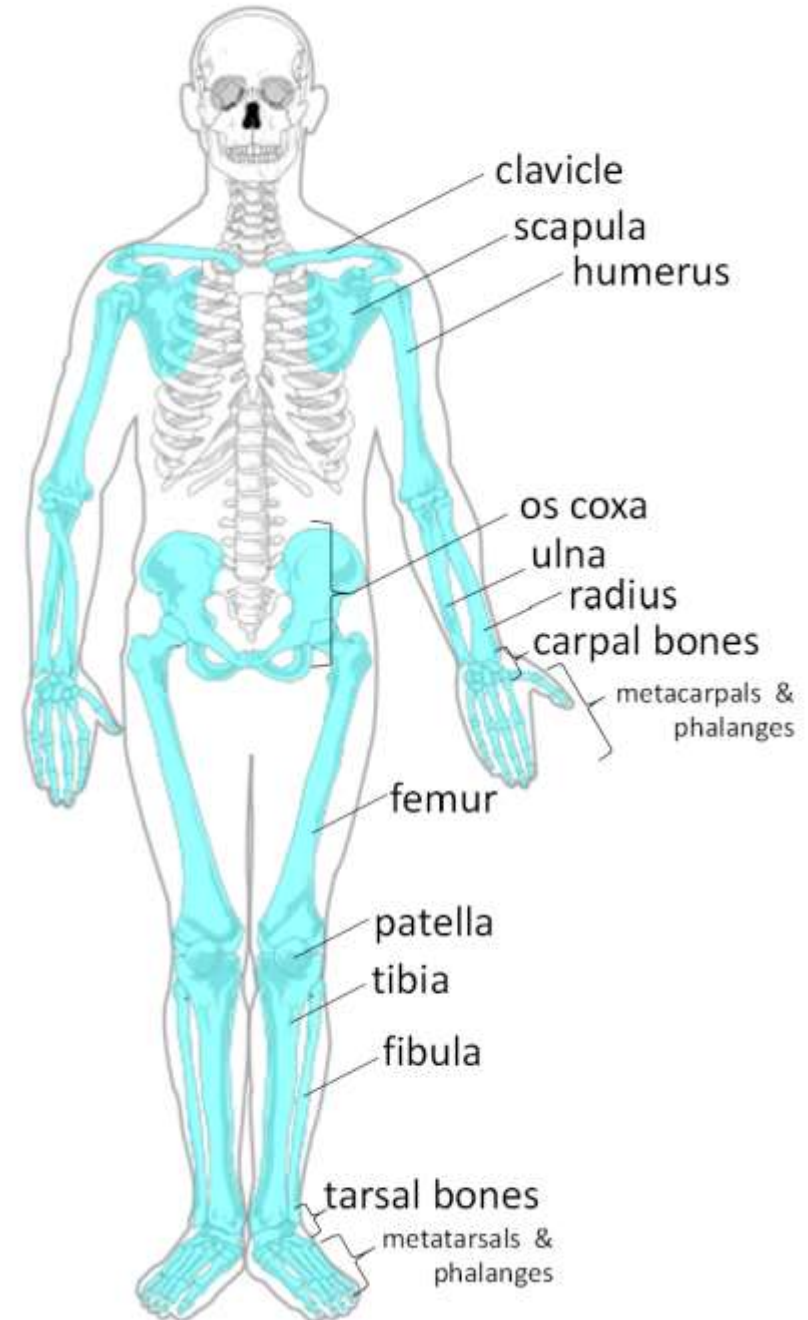
Bones of the Body, Front View

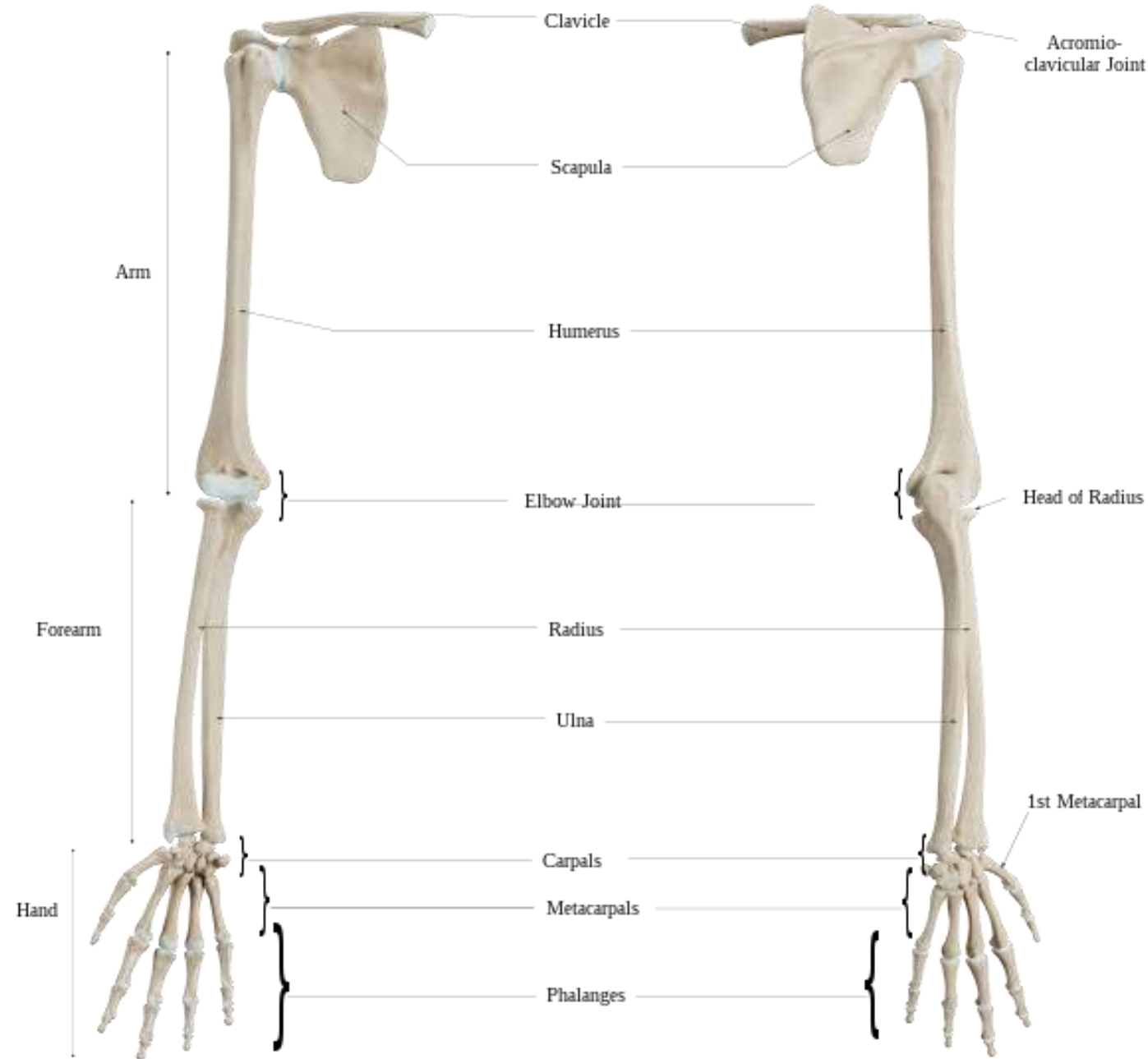


## Axial Skeleton



## Appendicular Skeleton

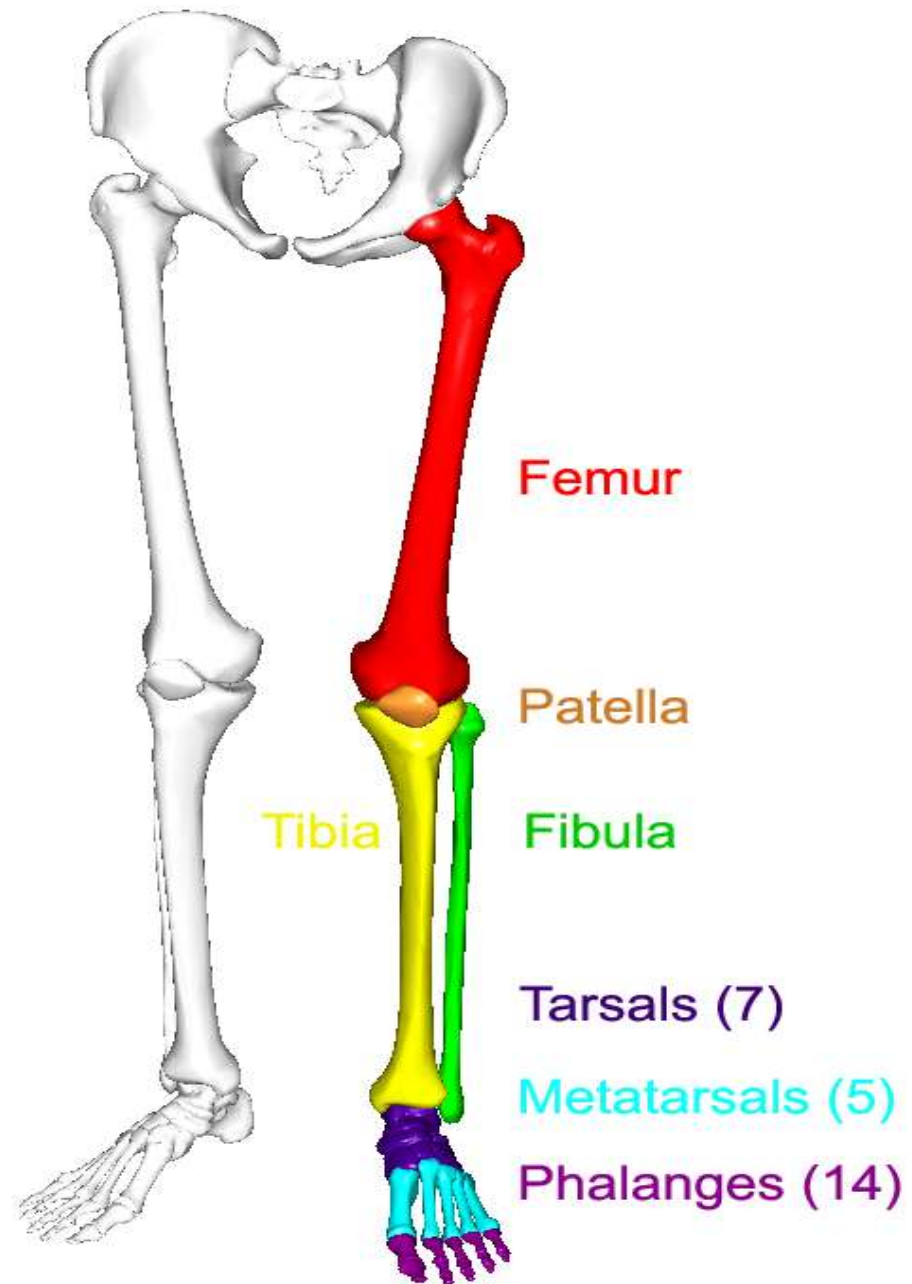


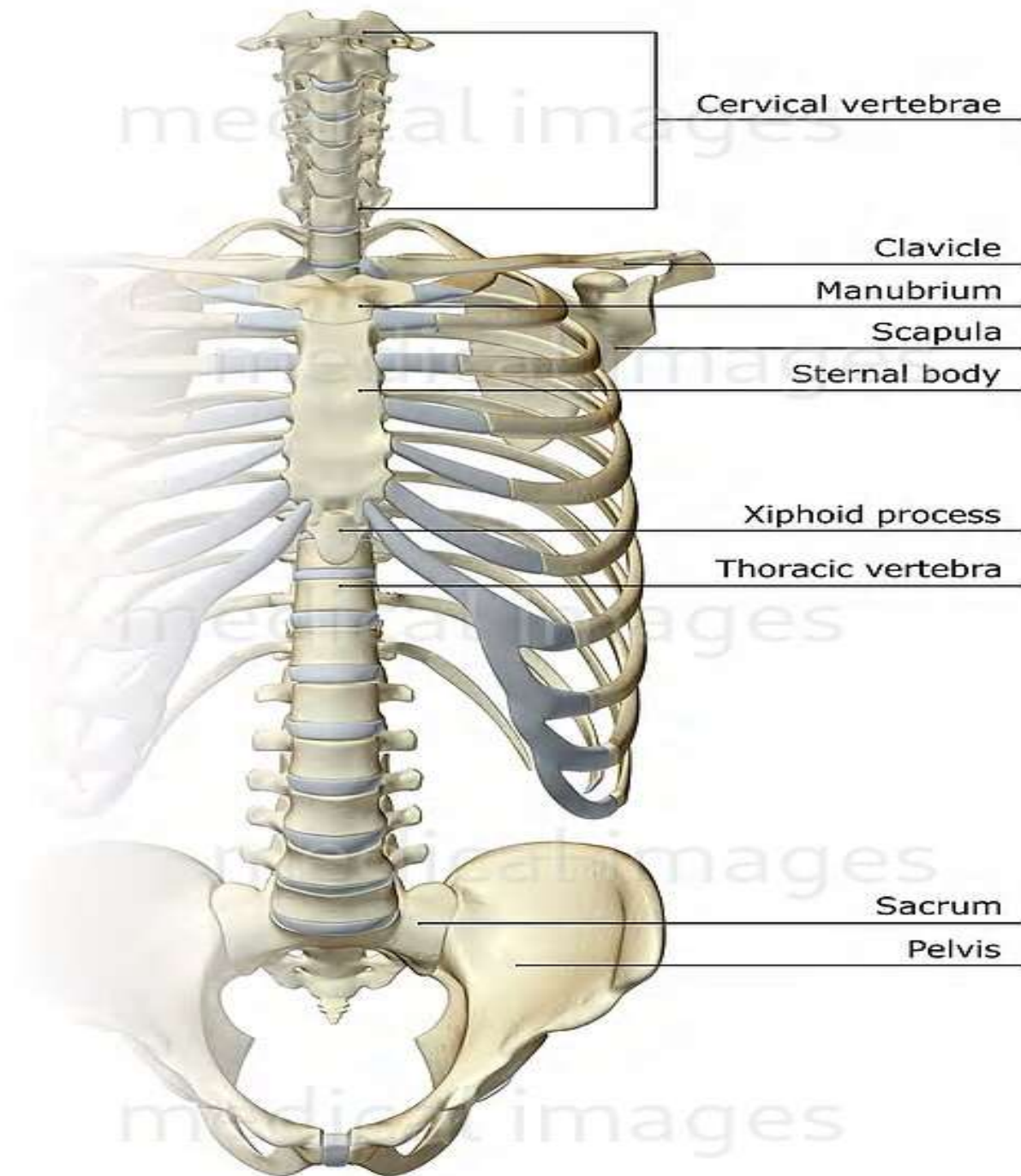


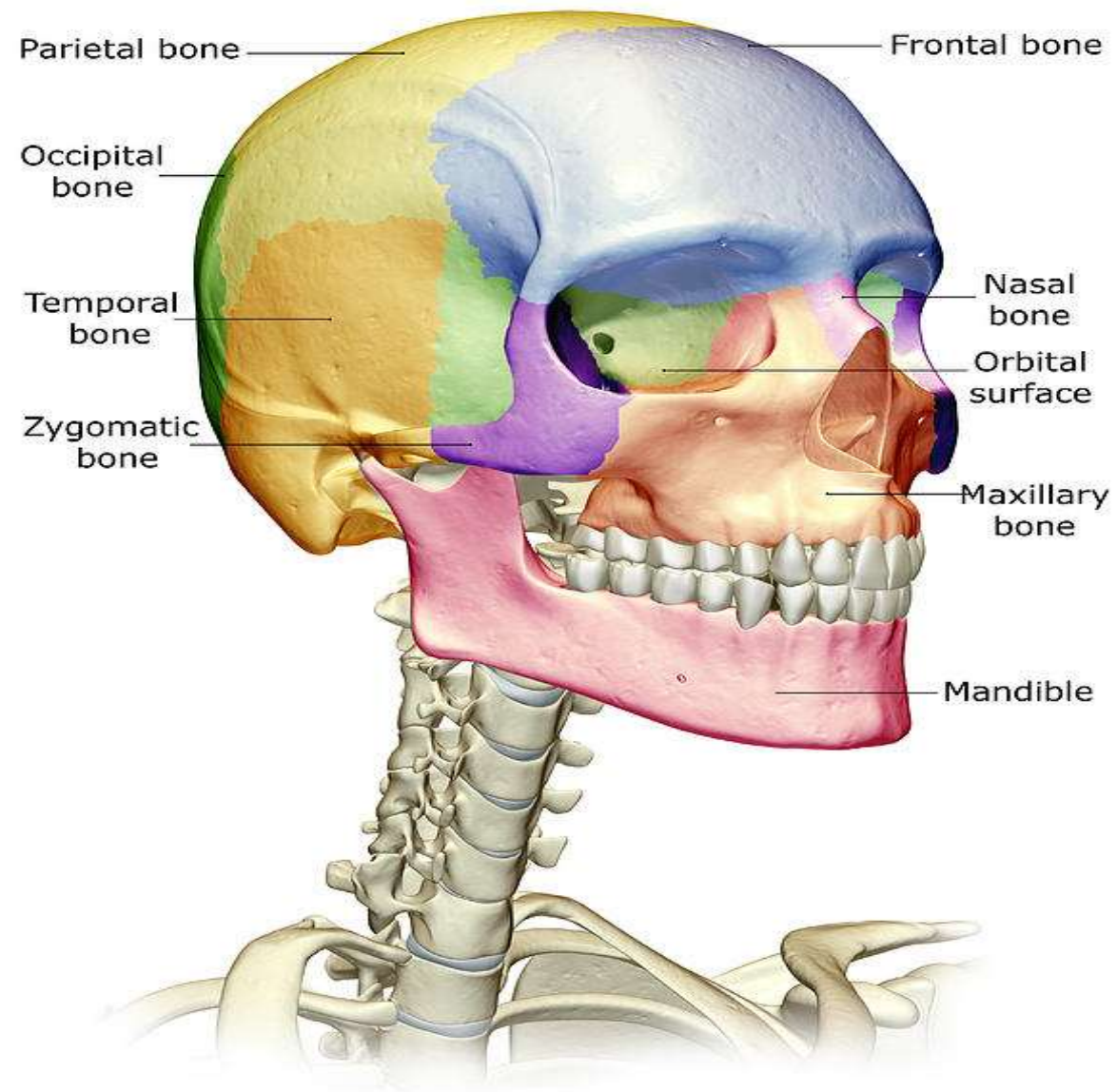
ANTERIOR VIEW

POSTERIOR VIEW







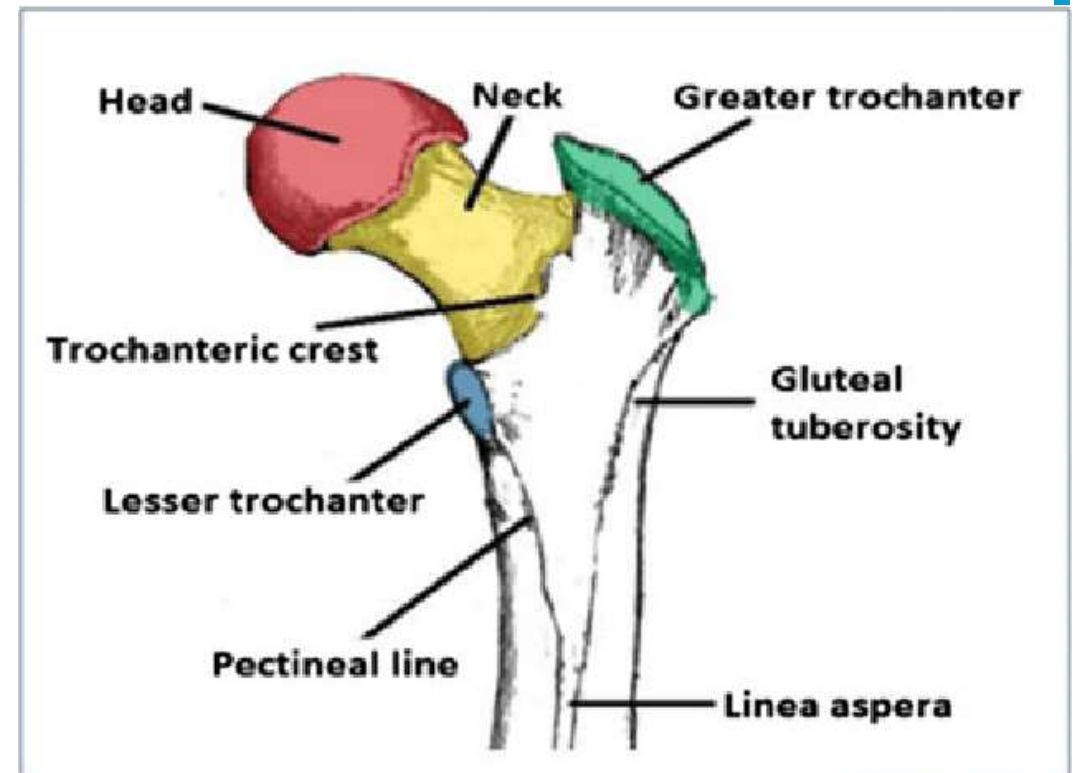


# Bone Features



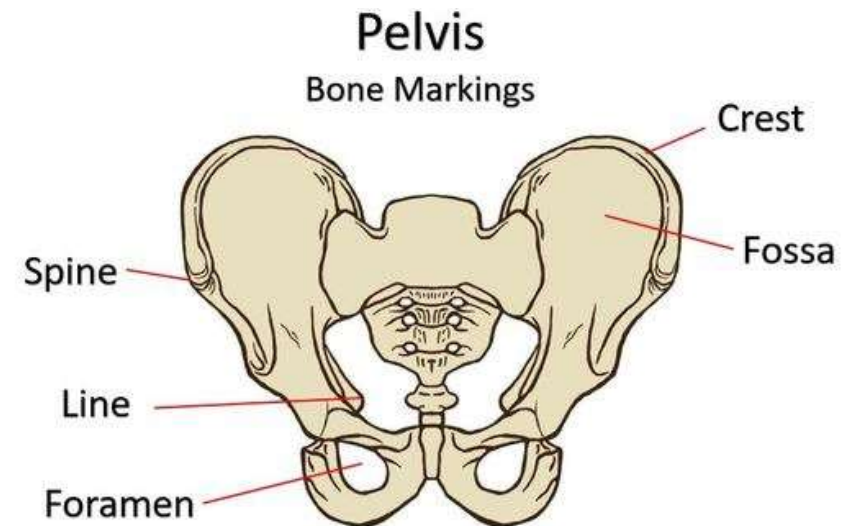
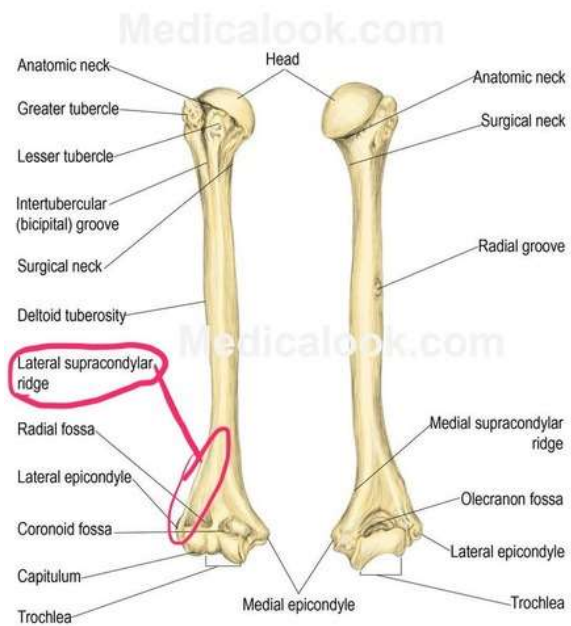
# Elevations linear

1. Line
2. Lip
3. Ridge(sharp)
4. Crest(blunt)



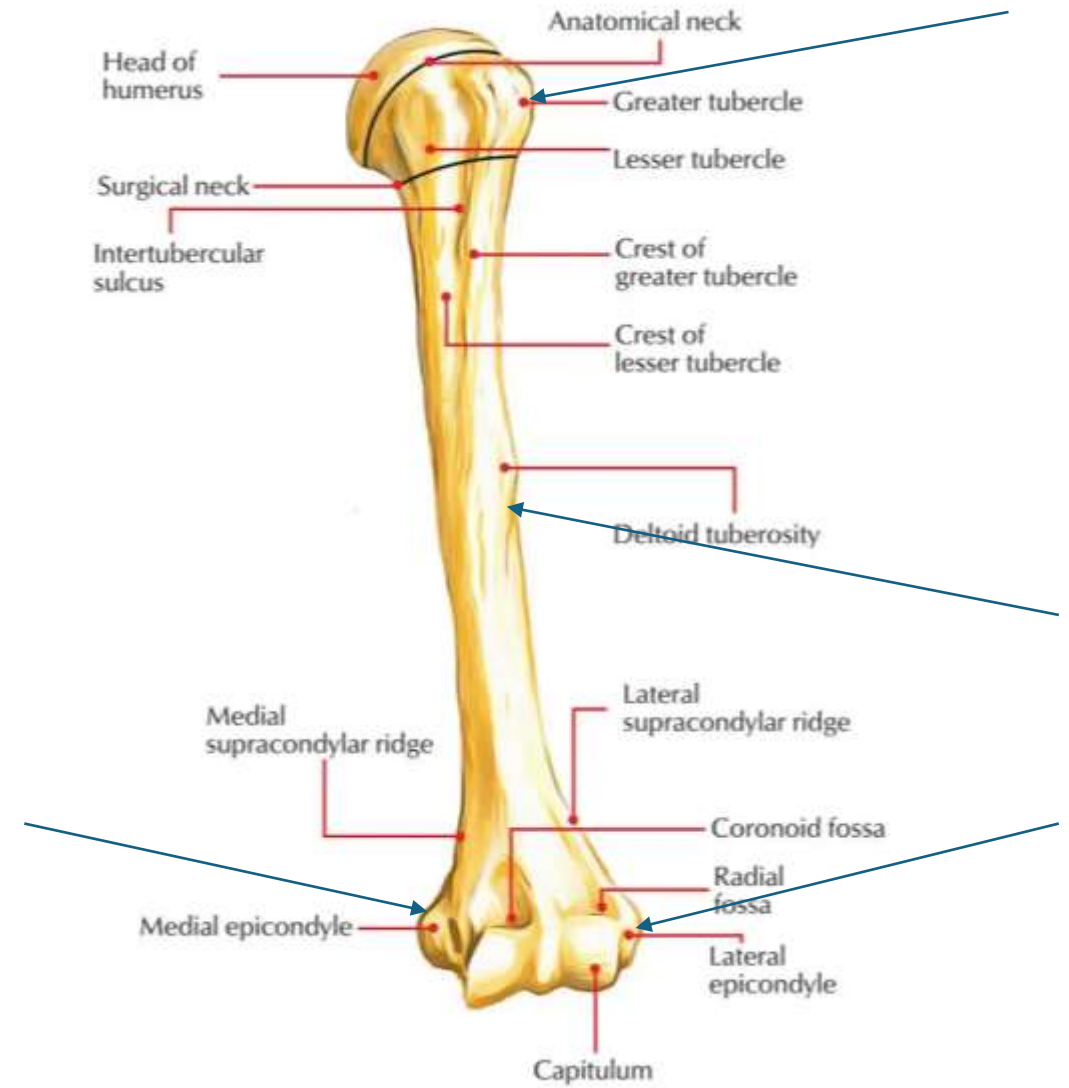


# Elevations examples

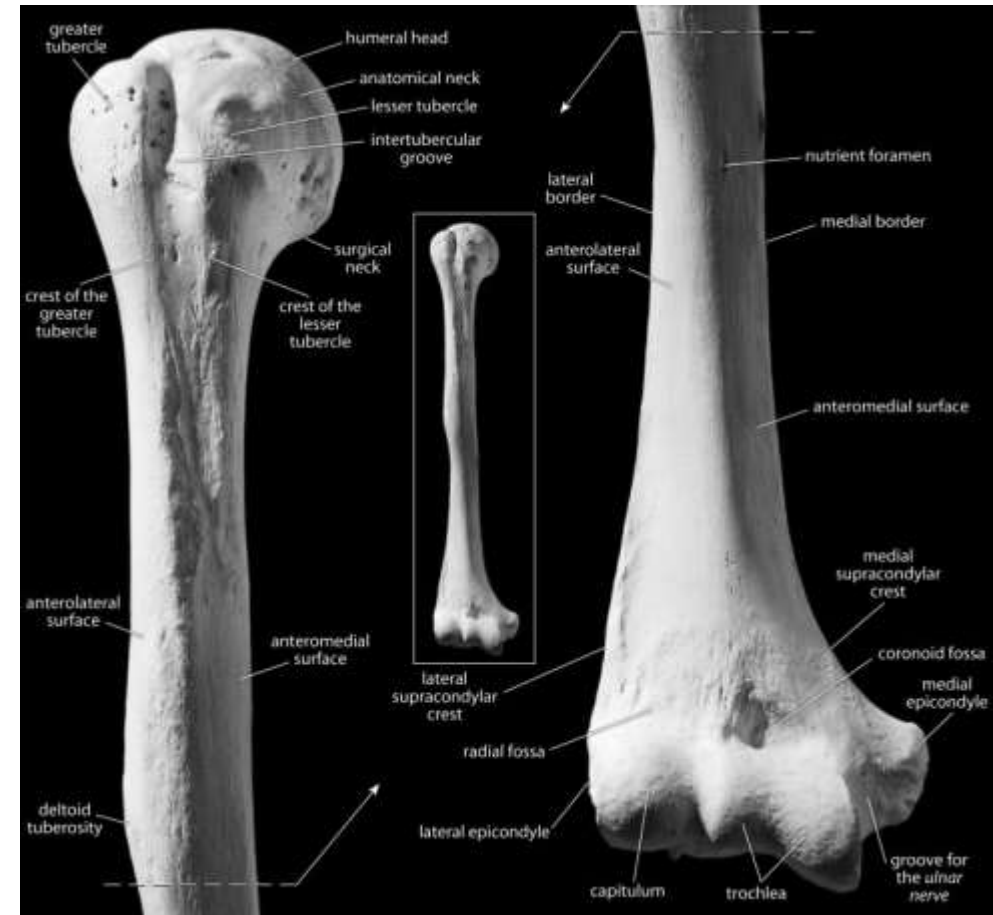
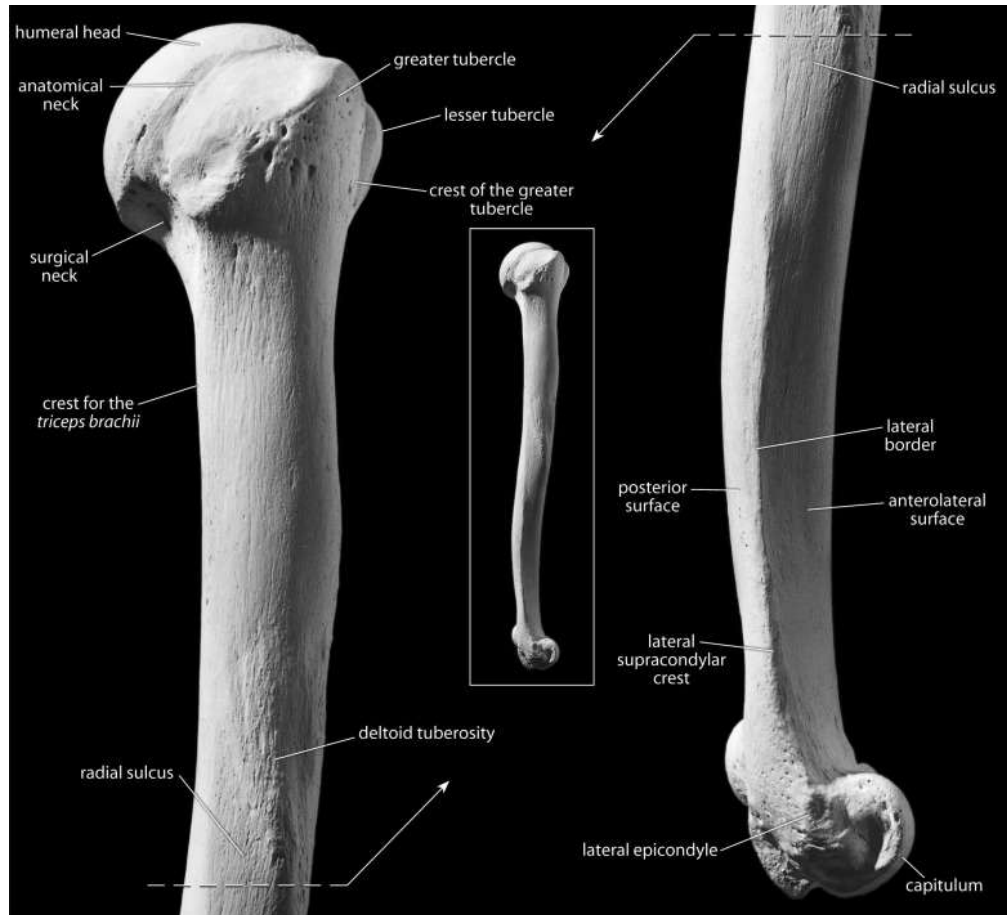


# Elevations irregular

1. Tubercle (small)
2. Tuberosity (medium)
3. Trochanter (large)
4. Epicondyle and malleolus



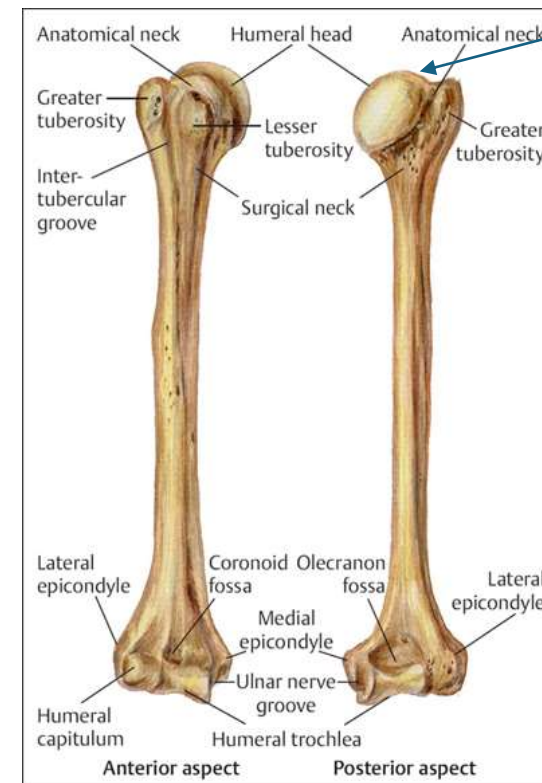
# Elevations example



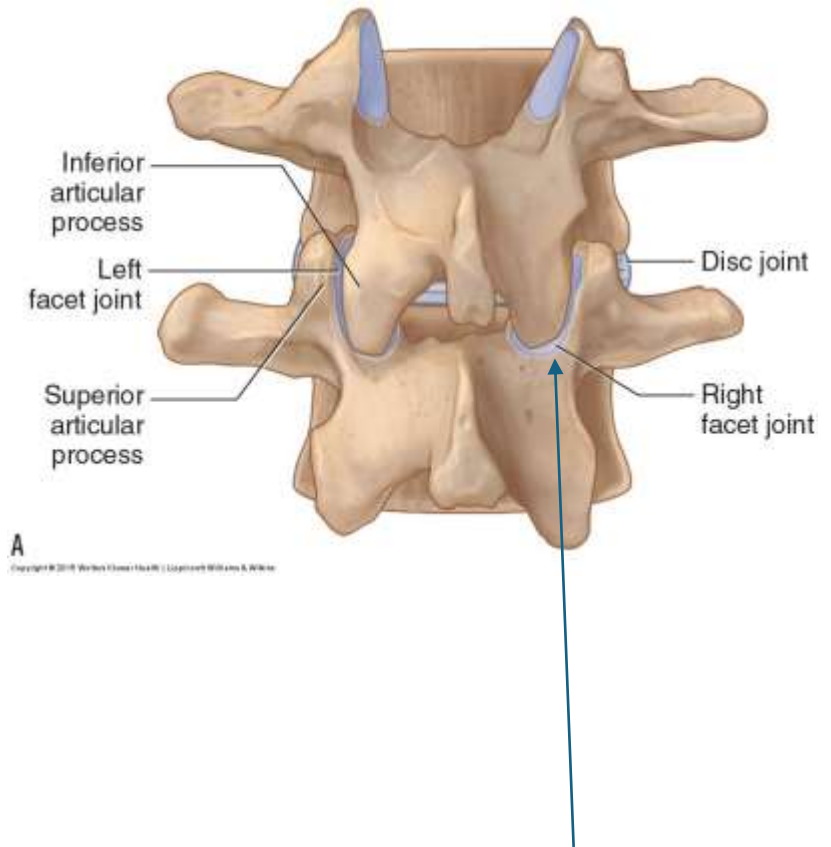
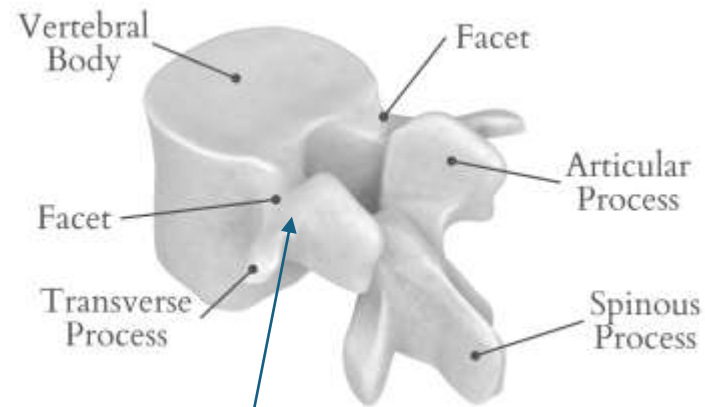
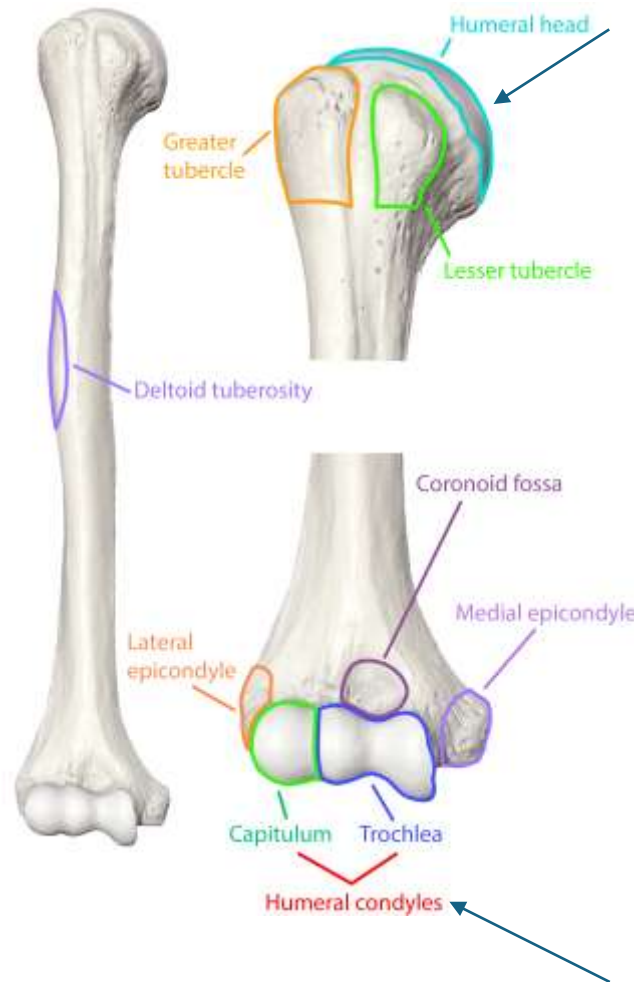
# Elevations regular

smooth articular surfaces

1. Head
2. Condyle
3. Trochlea
4. Capitulum
5. facet



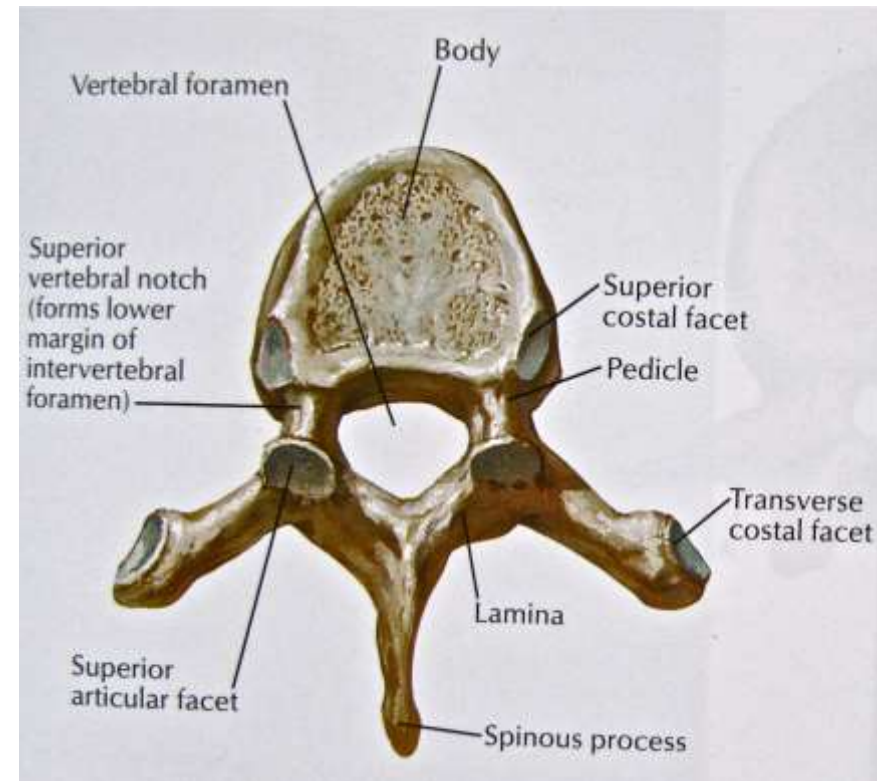
# Elevations example





# Elevations sharp or pointed

1. spine
2. Process
3. Cornu(horn)
4. Curved(hook)



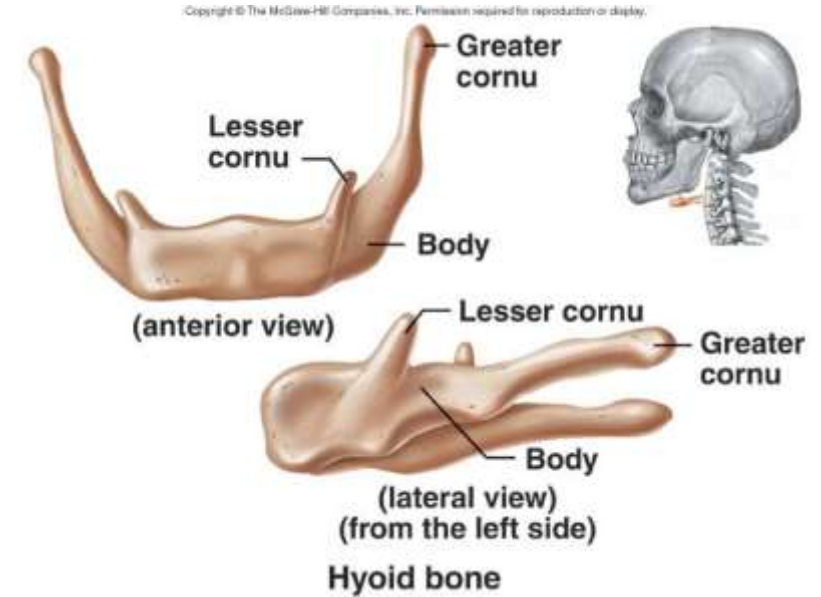
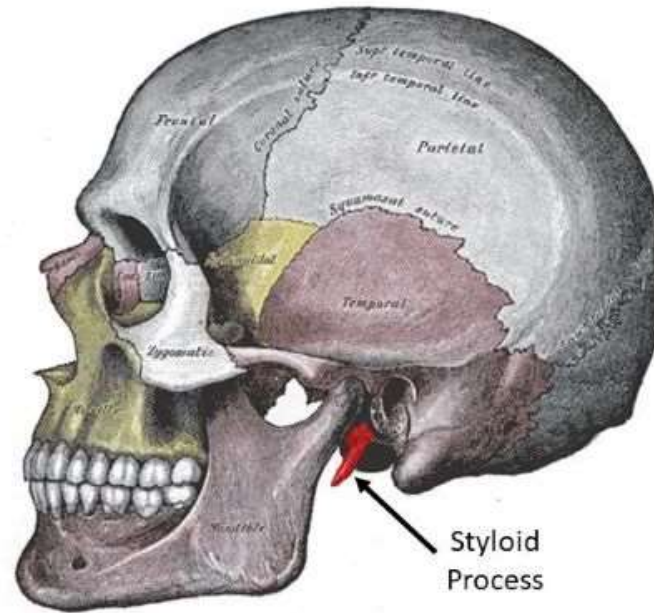
# Elevations examples

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## Hamate Bone



## Styloid Process





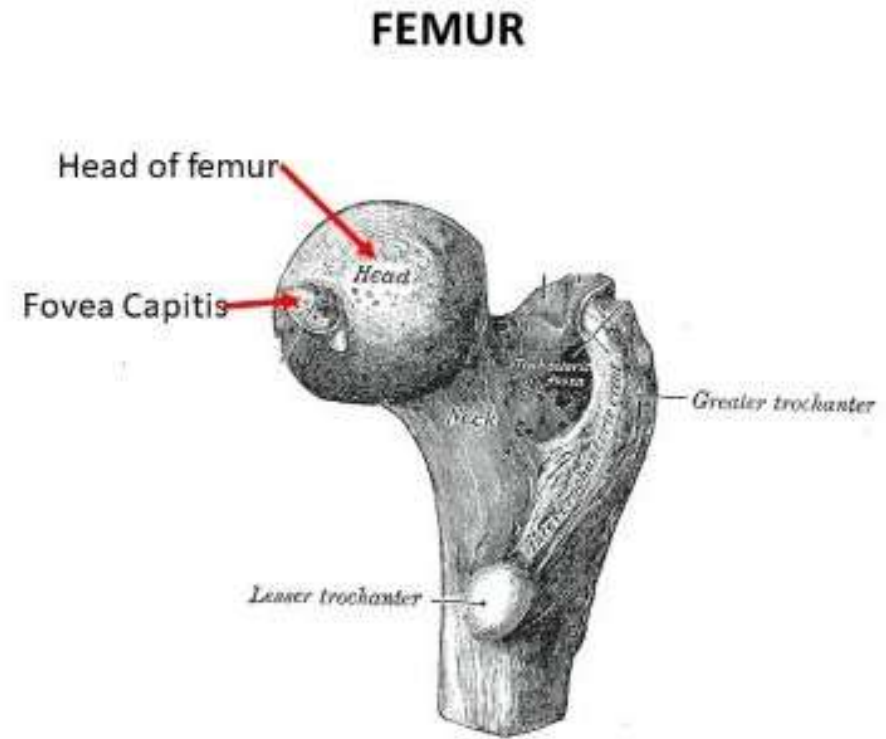
# Depressions

1. Oval or rounded : pit ,fovea ,impression or fossa .
  2. Elongated: groove,sulcus and furrow.
  3. On edge:notch(wide),incisura(narrow)
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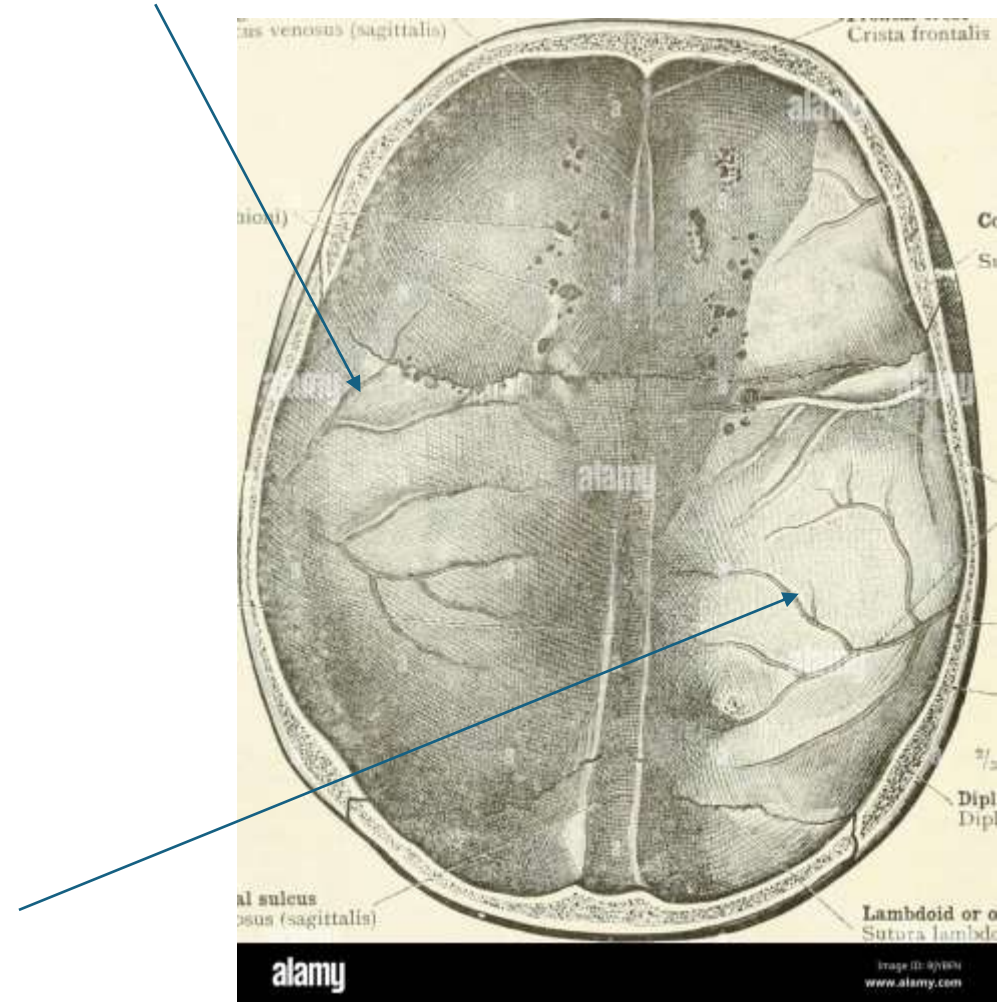
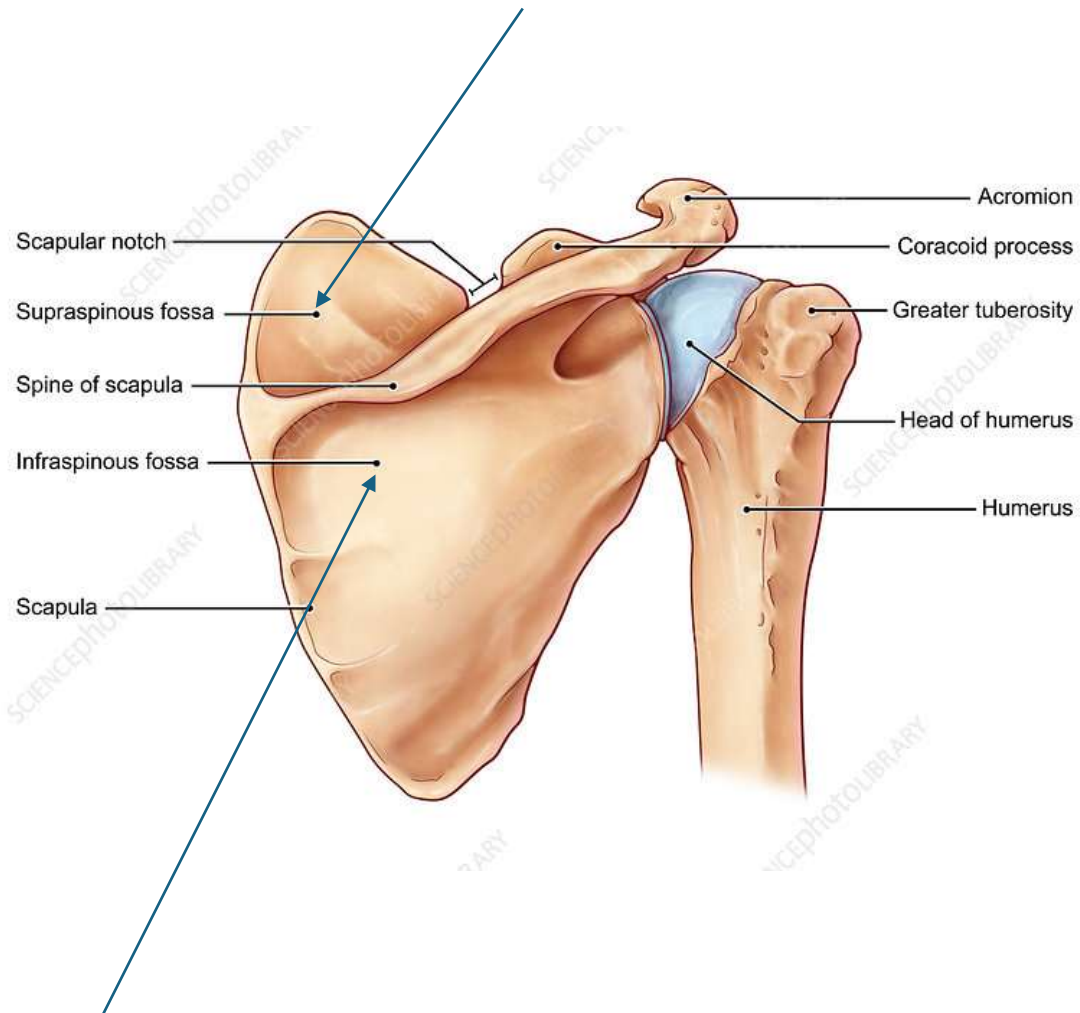
# Depressions oval or rounded

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1. Pit
2. Fovea
3. Impressions
4. Fossa



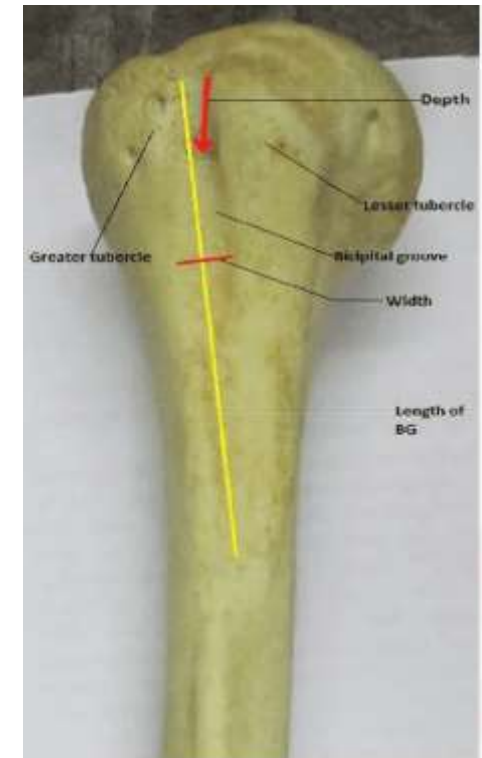
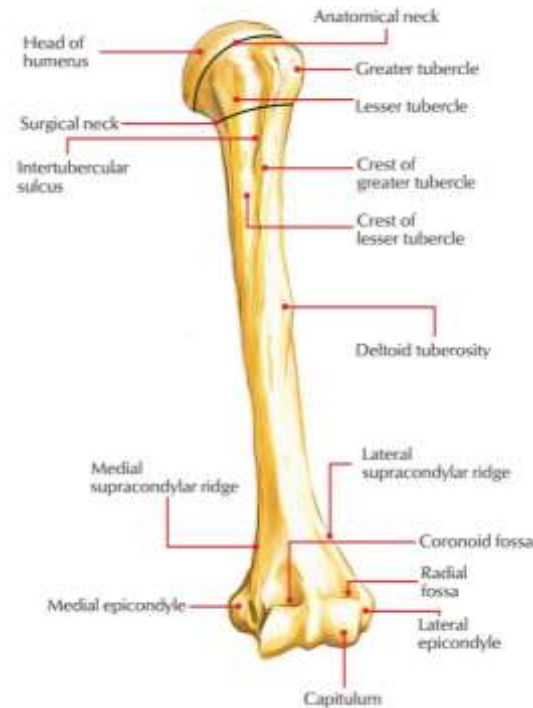
# Depressions examples





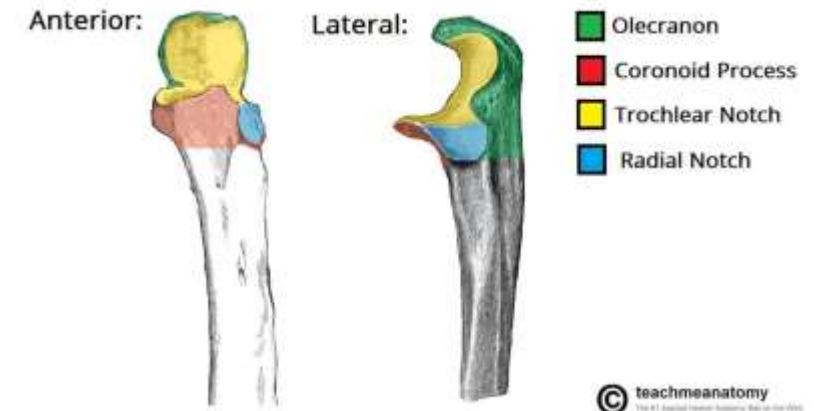
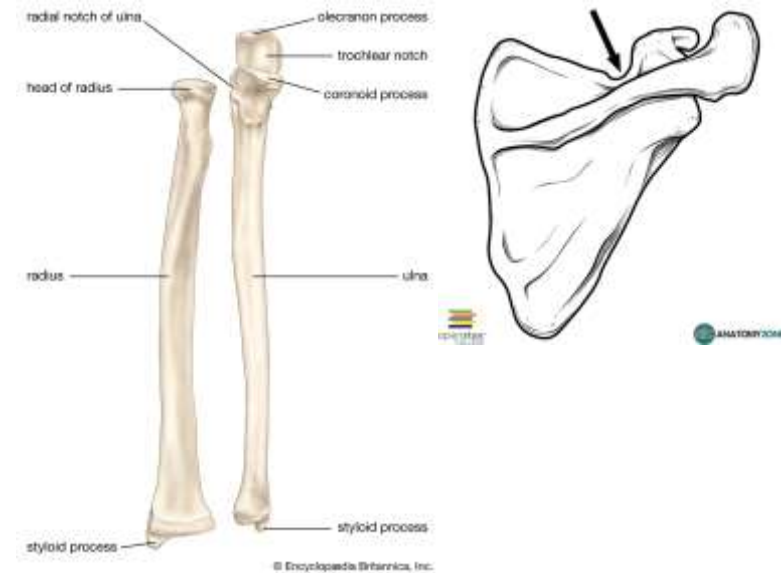
# Depressions elongated

1. Groove
2. Sulcus
3. Furrow



# Depressions on edge

1. Notch (wide)
2. Incisura (narrow)





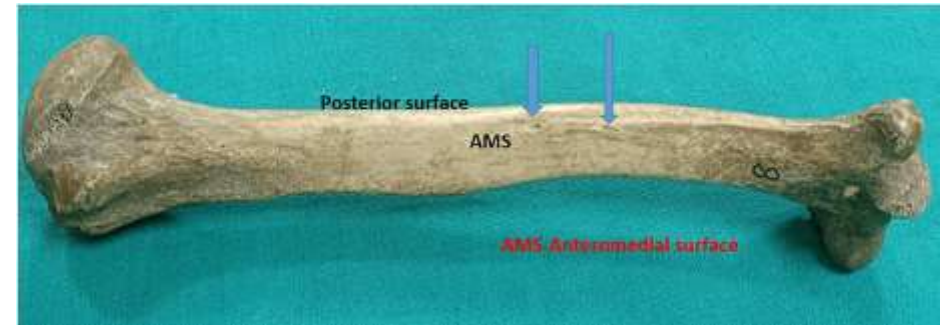
# Openings

1. Foramen : rounded smooth opening on the bone surface
  2. Canal(meatus): a clear passage in the bone
  3. Hiatus : a slit or gape
  4. Fissure : a linear separation between two or more bones
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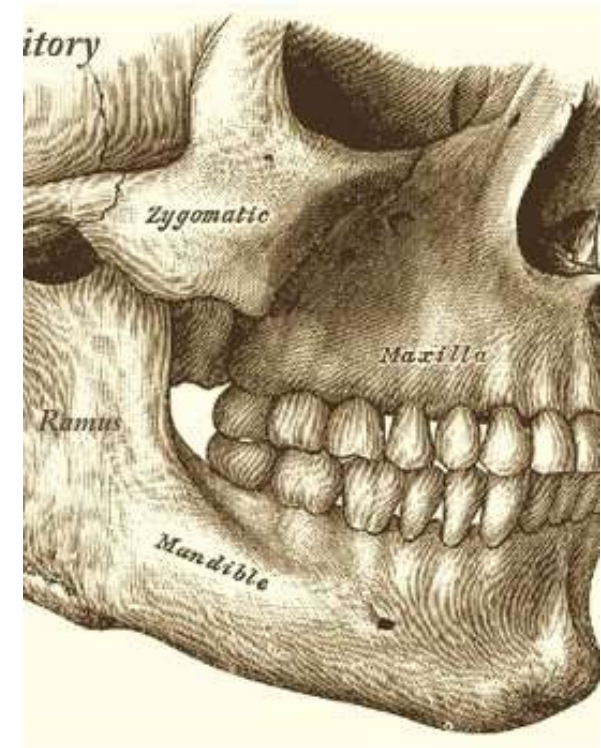
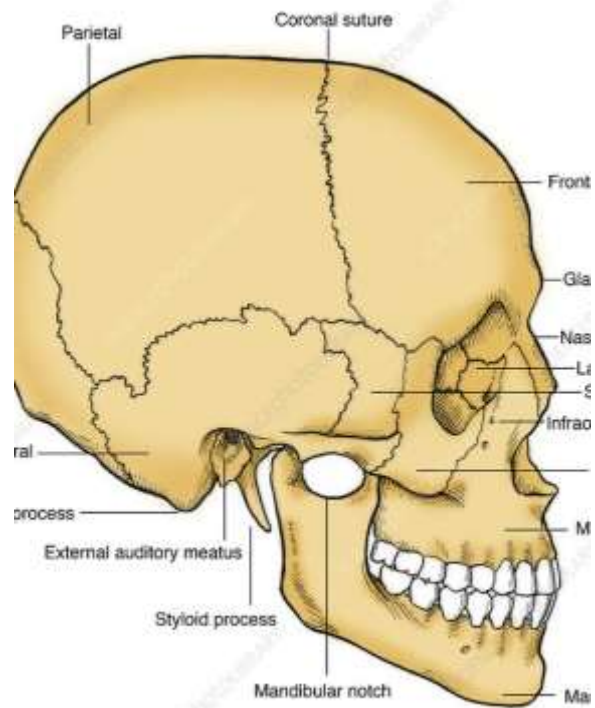
# Openings examples

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- Nutrient foramen
- Foramen magnum (skull base)

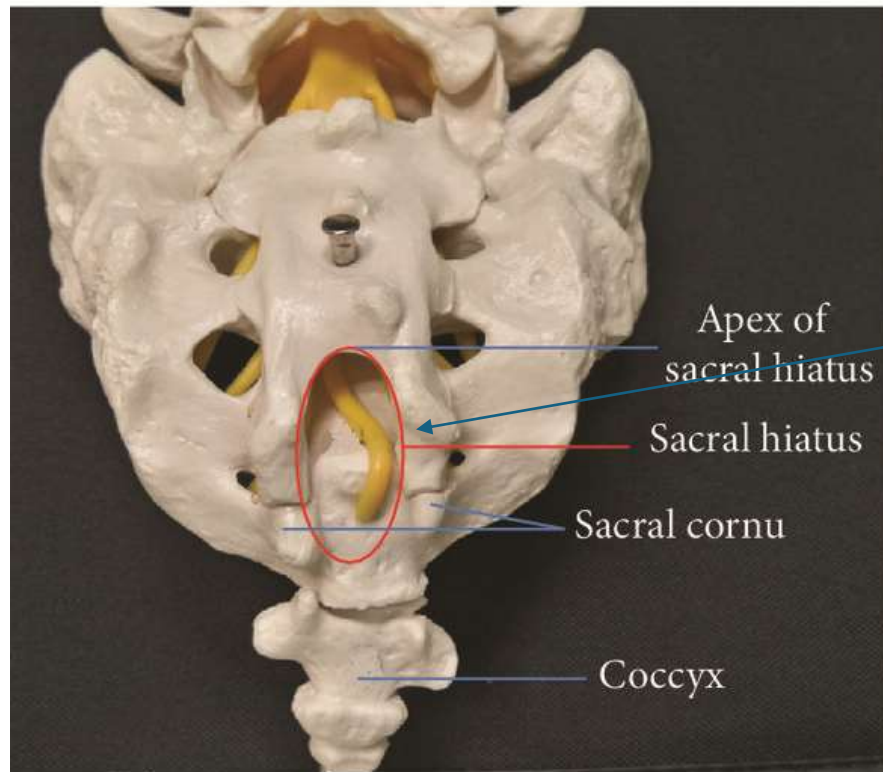


# Openings examples canal(meatus)



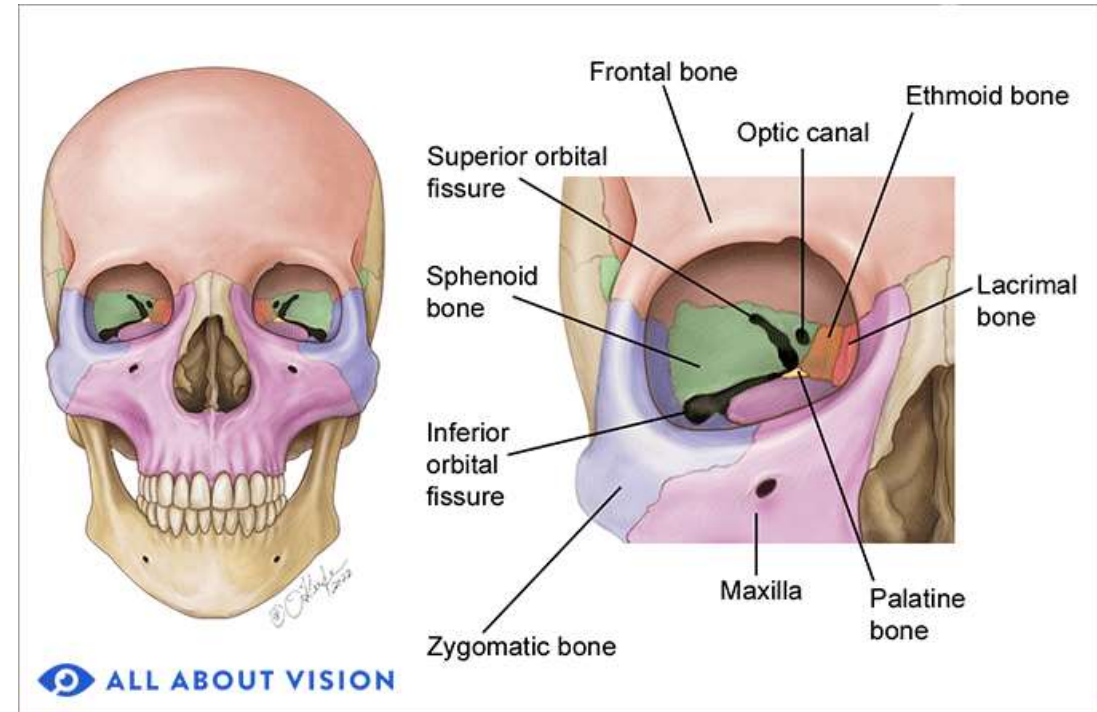


## Openings examples hiatus



# Openings examples fissure

- Superior orbital fissure
- Inferior orbital fissure



# Cavities

- Air spaces inside the bone , like ; sinuses ,air cells and antrum.

## Examples

1. On the left:paranasal sinuses
2. On the right :mastoid air cells.

