Lecture: 2

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lecture 2

- **Skeleton**
  - made of
    - Bones → rigid / heavier than cartilage ⇒
    - cartilage → more flexible & lighter → the younger the age, the greater the contribution of cartilage to skeleton
    - ligaments
    - joints
  - divisions
    - endoskeleton (206) — divided upon (region) location
      - appendecular [126] طرفي → attach to axial → appendages bones [upper + lower limbs] & their girdles [Shoulder + pelvis]
      - axial [80 bones]
        - sternum
        - vertebral column
        - ribs
        - Skull → 22 bones
          - 21 non movable [brain & its meninges], articulated by sutures [fibrous joints] (Cranium) or Calvaria
            - unpaired [located at the middle] [5]
              - frontal → pierced by supraorbital foramen [passage to supraorbital nerve & vessels]
              - occipital
              - ethmoid
              - sphenoid → lesser wing, greater wing
              - vomer
            - paired [8]
              - parietal
              - temporal
              - maxillary (imp) → contains maxillary air sinus; → upper jaw bone, pierced by infraorbital foramen [passage to infraorbital nerve & vessels]
              - zygomatic
              - nasal → nose bridge
              - lacrimal
              - palatine
              - inferior concha
          - 1 movable [mandible] → facial bones,

    - exoskeleton ↳ rudimentary basic ↳ enamel of teeth, nails

* bones (rigid connective tissue)

* cartilage (flexible connective tissue)

* bones
- flat →  → 
- long →  → 

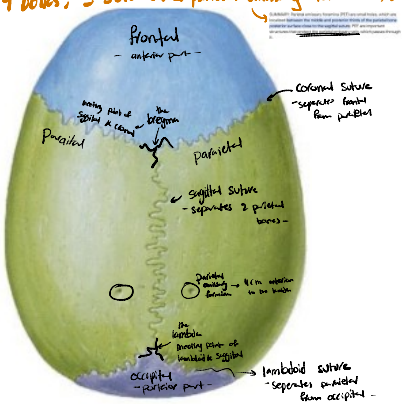
* What connects axial to appendecular skeleton? → Shoulder + pelvis

Norma verticalis

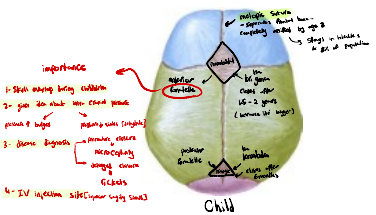
(Superior view/upper)

~ vault of the skull ~

4 bones, 3 sutures, 2 parietal emissary foramina, 3 apertures (2 orbital, 1 nasal)



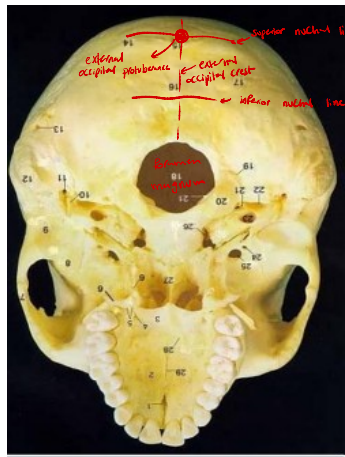
*Sutures are fibrous joints



Norma occipitalis

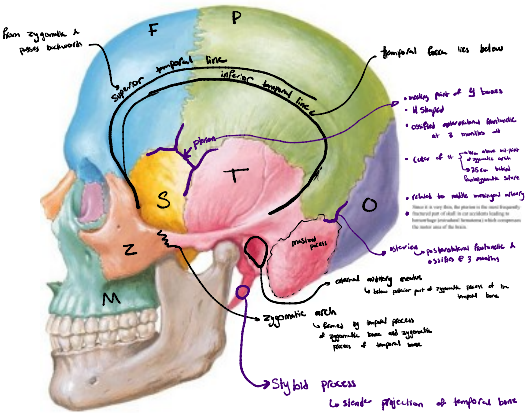
Occipital bone presents

- external occipital protuberance
  - median elevation on occipital bone
  - most projecting point → inion
- external occipital crest
  - extends from protuberance → foramen magnum



Norma lateralis

- 7 bones
  - Frontal
  - Parietal
  - occipital
  - temporal
  - greater wing of sphenoid
  - maxilla
  - zygomatic



Norma Basalis externa