

Anatomy of the skull

Prepared by: Dr Dina Abdallah Badawi

Demonstrator of Anatomy & Embryology

Dr Noura Magdy Abo Elkhair

Assistant lecturer of Anatomy & Embryology

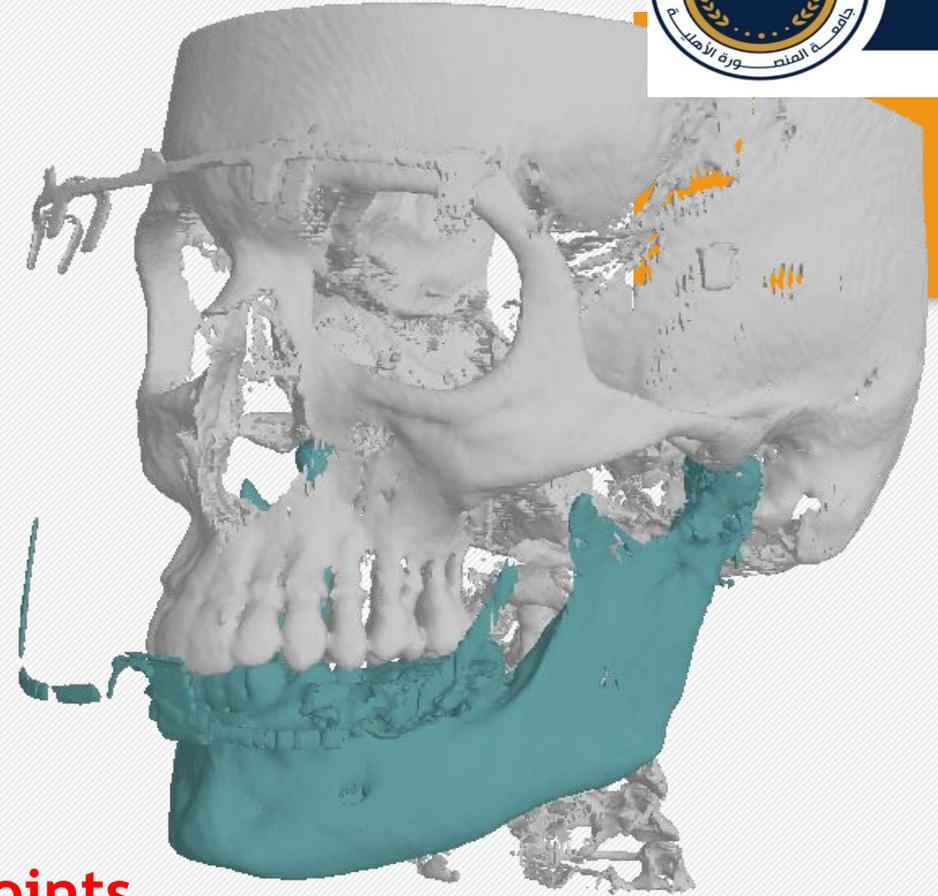


The Skull

-The skull is the skeleton of the head and is mainly formed of two parts:

- ❑ The cranium.
- ❑ The mandible.

-The cranial bone are united together by **sutural joints**.

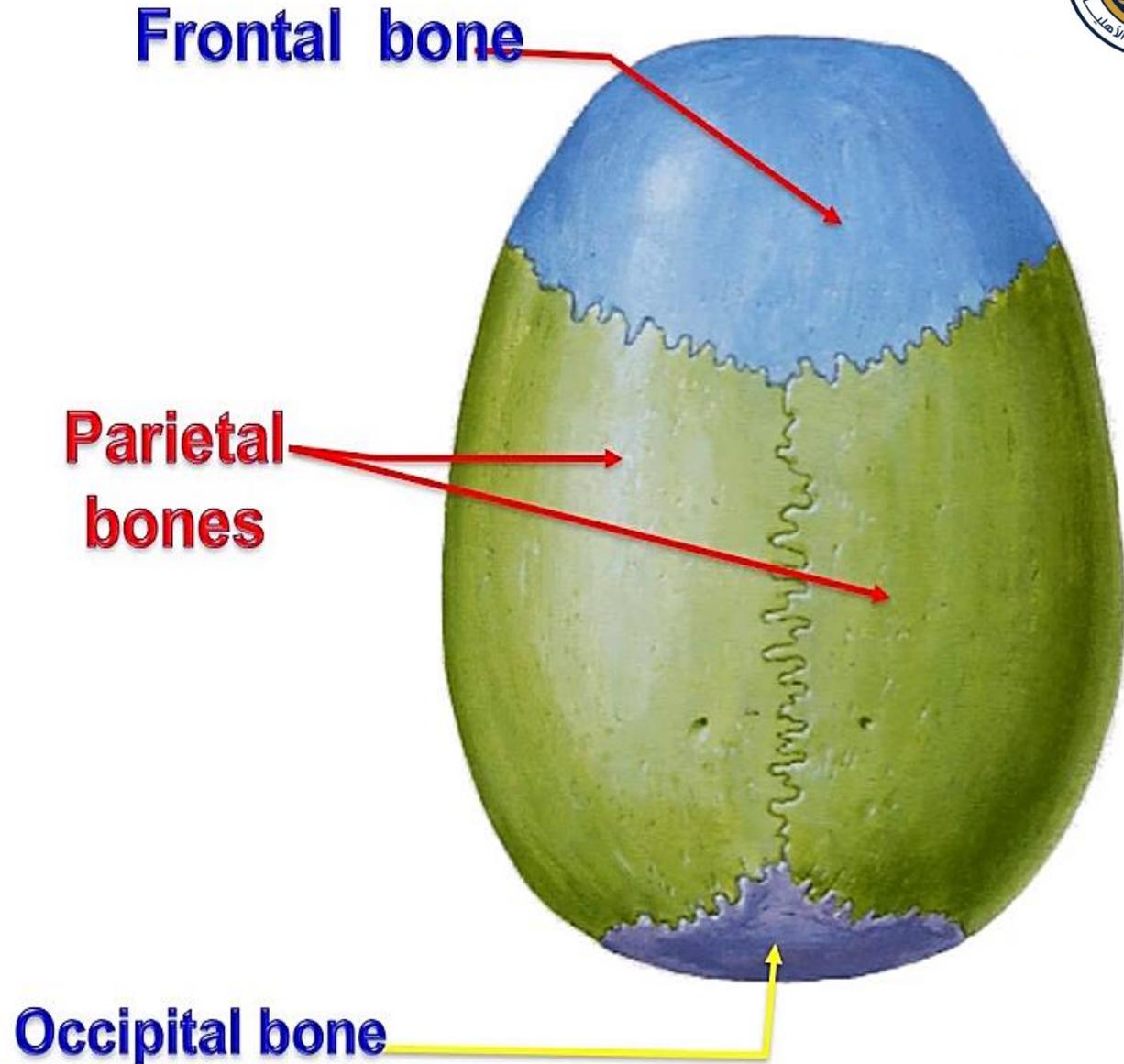


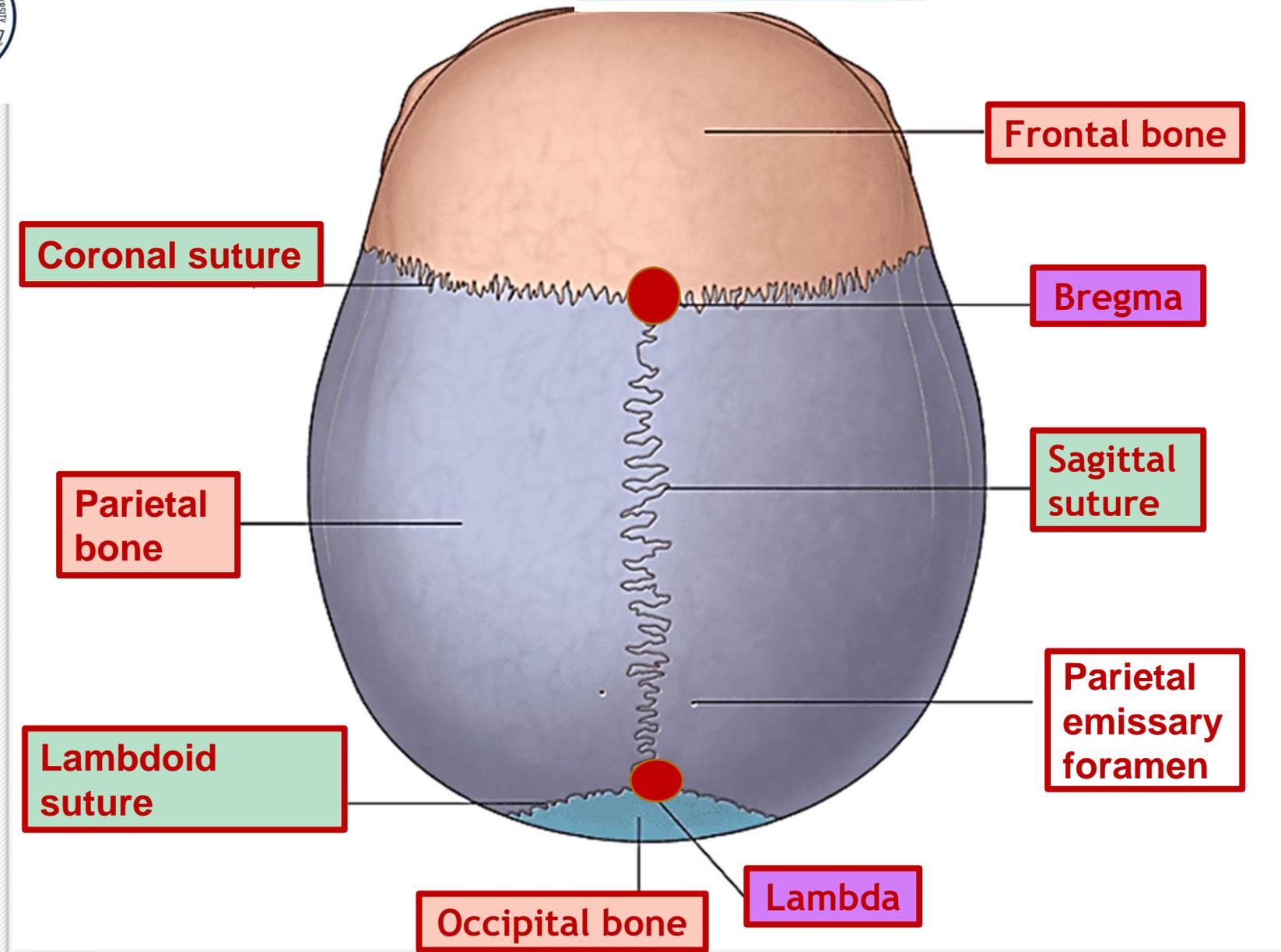
The Skull

- The skull may be viewed from the following aspects (**Norma**):
 1. Above (Norma verticalis)
 2. Behind (Norma occipitalis)
 3. Front (Norma frontalis)
 4. Side (Norma lateralis)
 5. Base of skull (Norma basalis)

Norma Verticalis

- It is the upper aspect (Vault of the skull).
- Bones Forming it:
 1. Frontal bone (anteriorly)
 2. 2 parietal bones (on each side)
 3. Occipital bone (posteriorly)



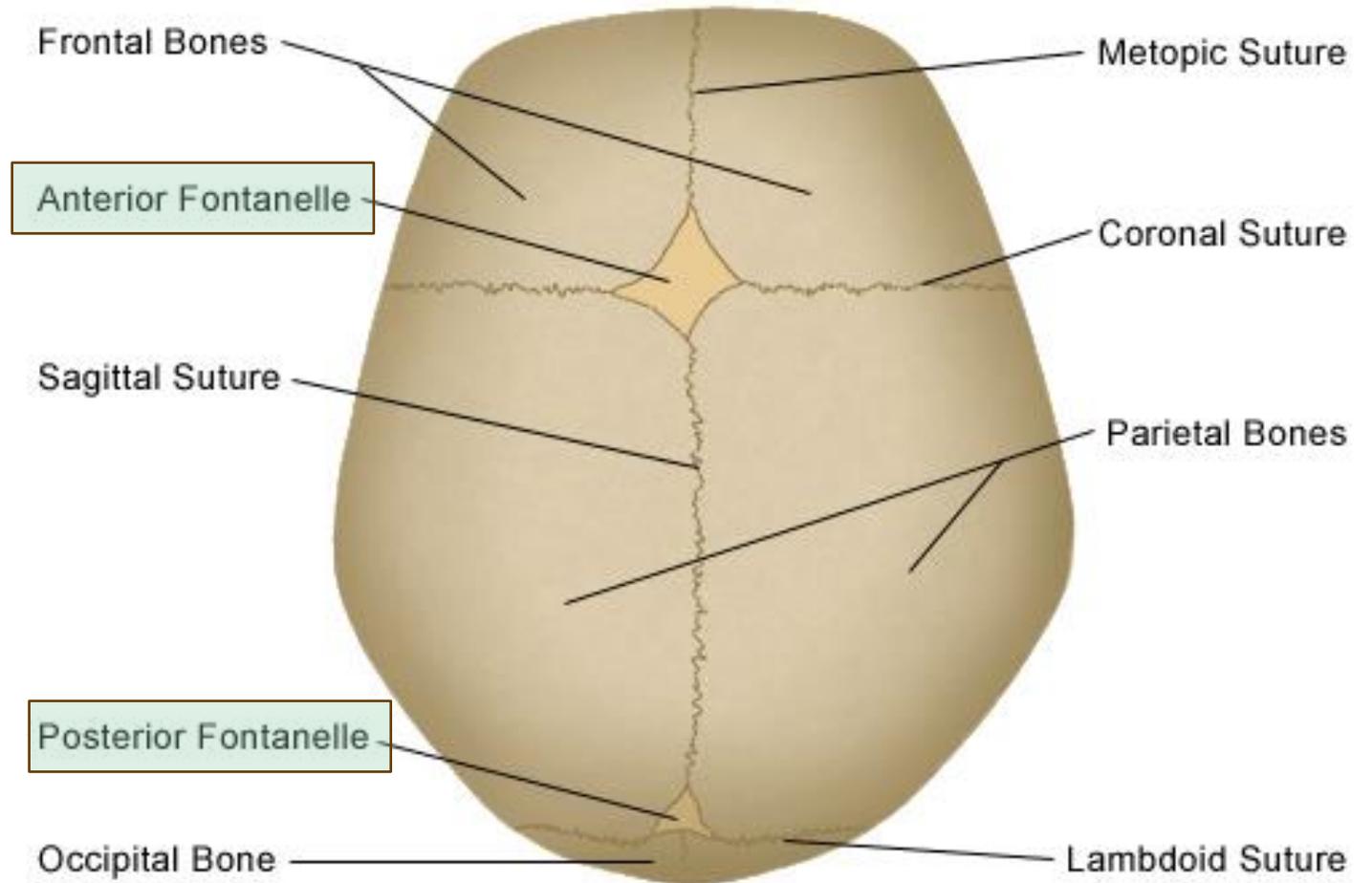


Norma Verticalis

- **Bregma:** point of meeting between sagittal and coronal sutures. At birth, it is occupied by a rhomboidal - shaped membrane called The ANTERIOR FONTANELLE.

- **Lambda:** the point of meeting between sagittal and lambdoid sutures. At birth it is occupied by a triangular-shaped membrane called The POSTERIOR FONTANELLE.

Normal Skull of the Newborn

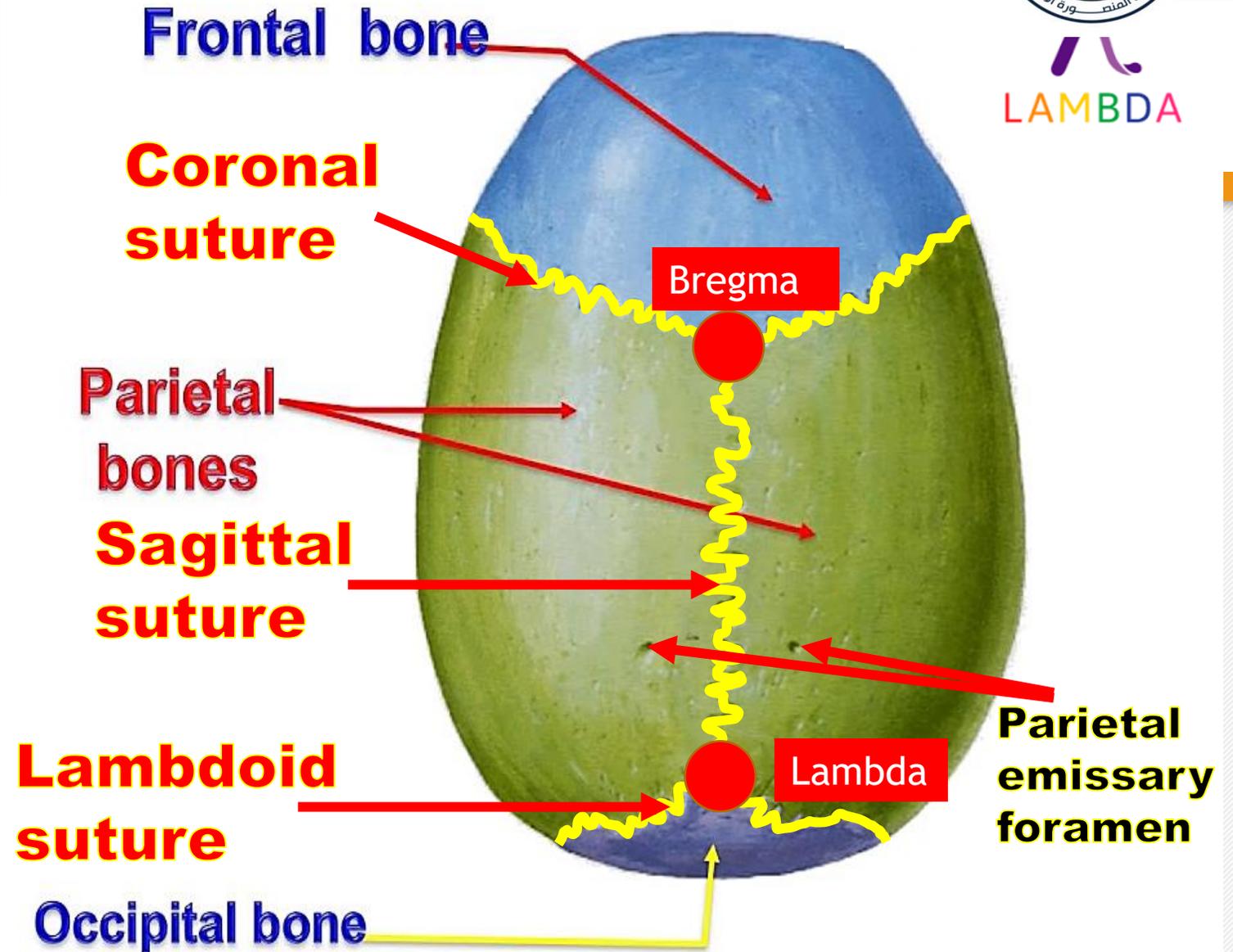


Norma Verticalis

4 Bones: Frontal,
2 Parietal & Occipital

3 sutures: Coronal,
Sagittal and Lamdoid

3 special features:
Bregma, Lambda and
parietal emissary
foramen

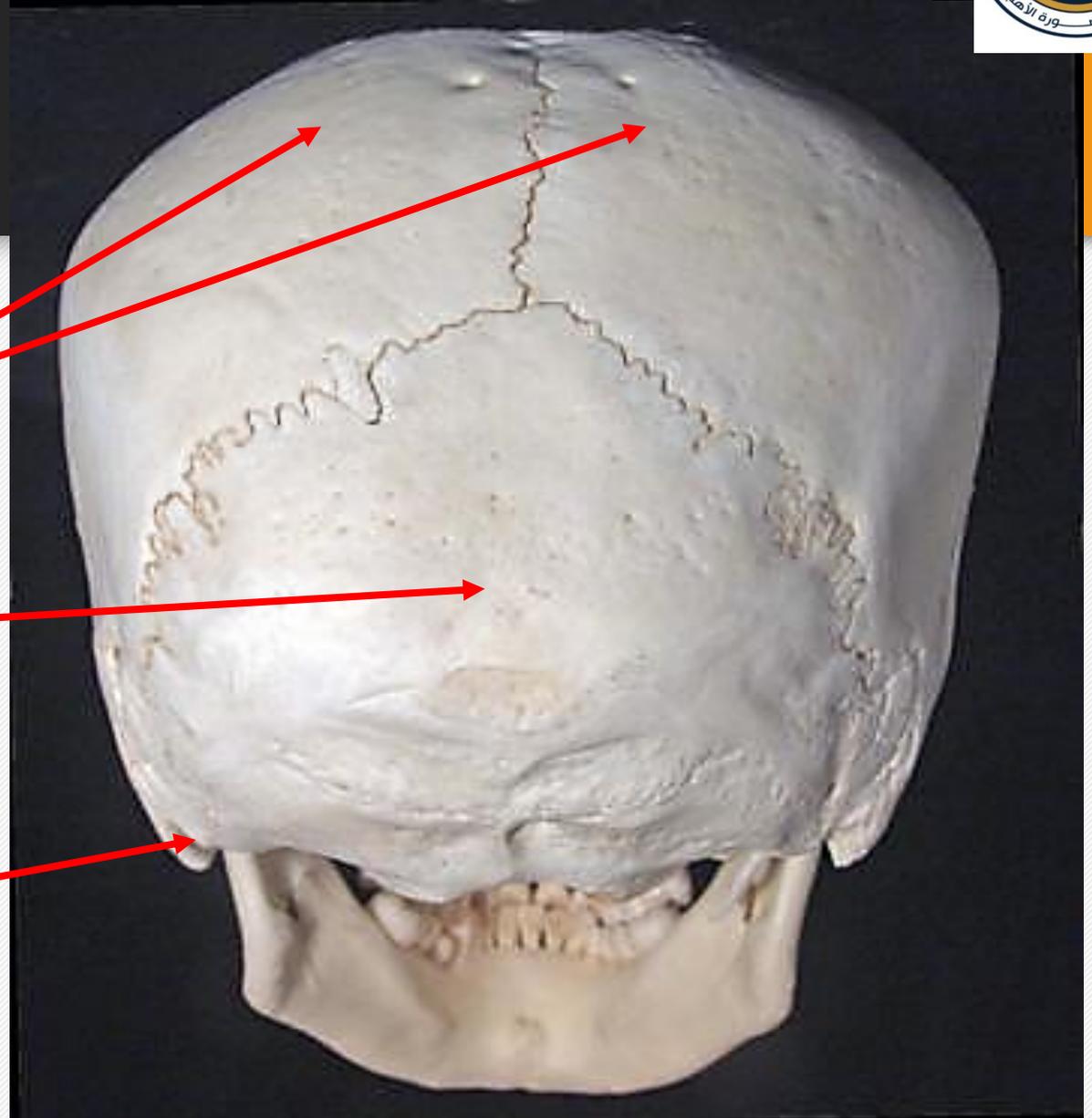


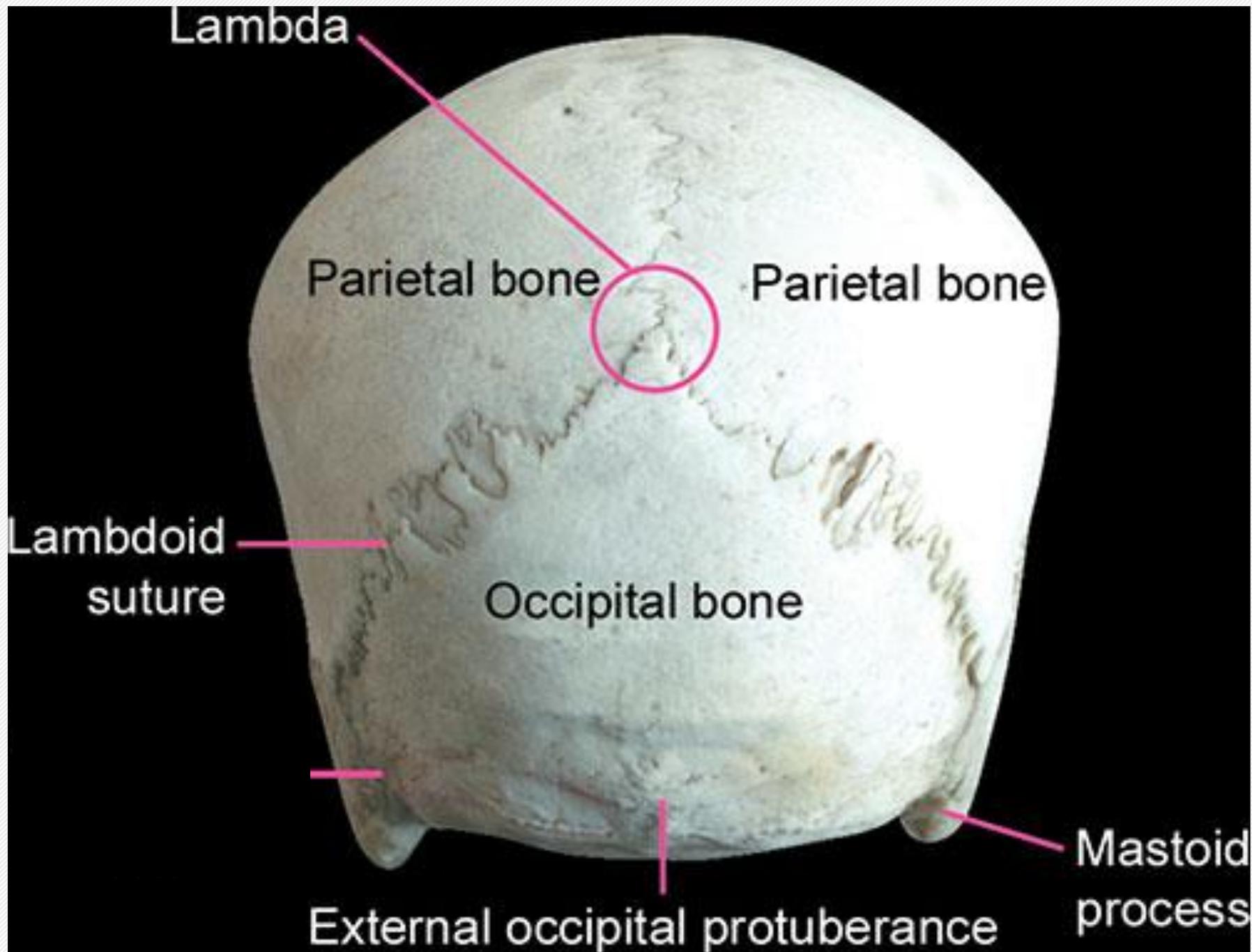
Norma occipitalis

Parietal bones

Occipital bone

Mastoid process

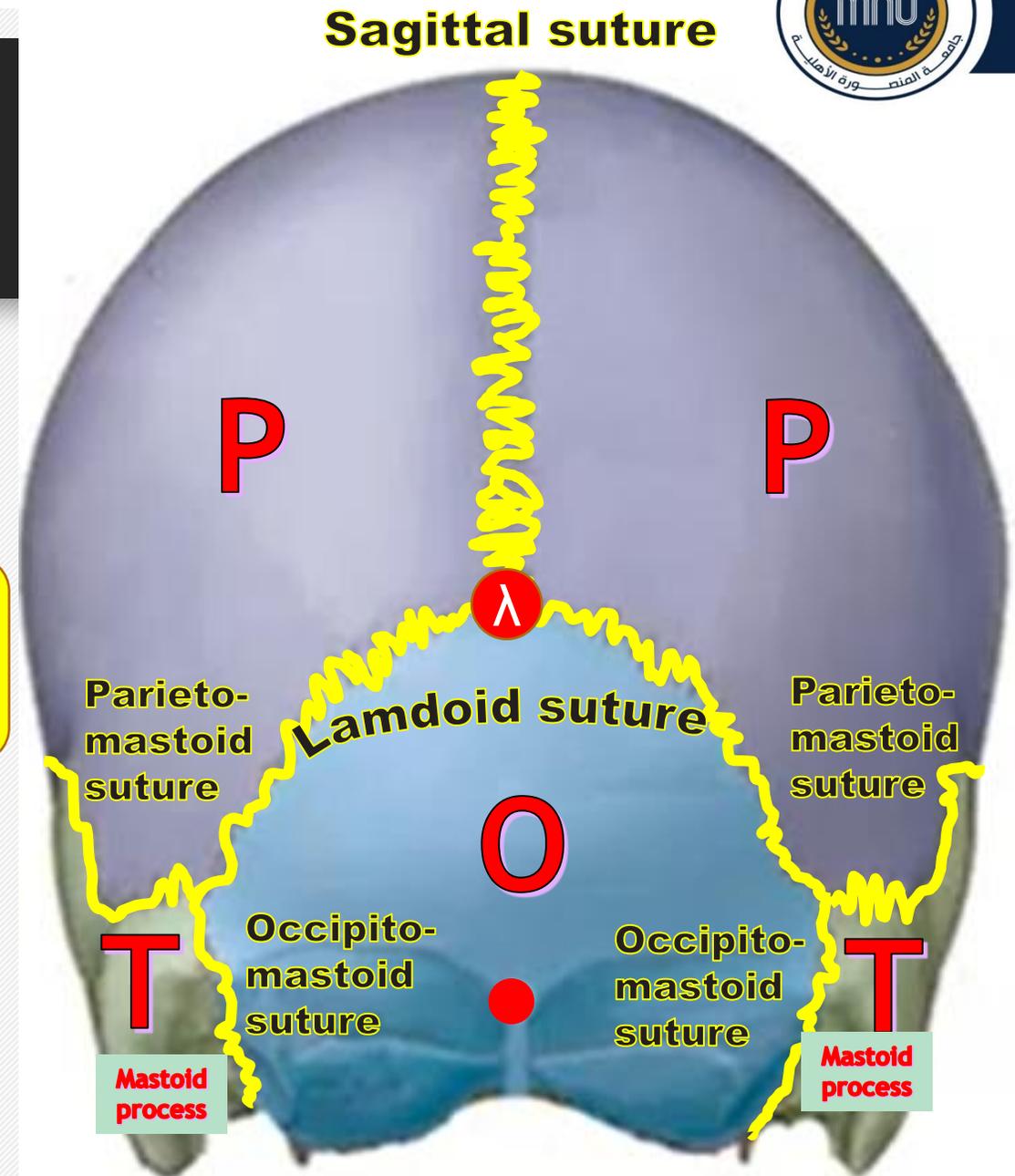




Norma occipitalis

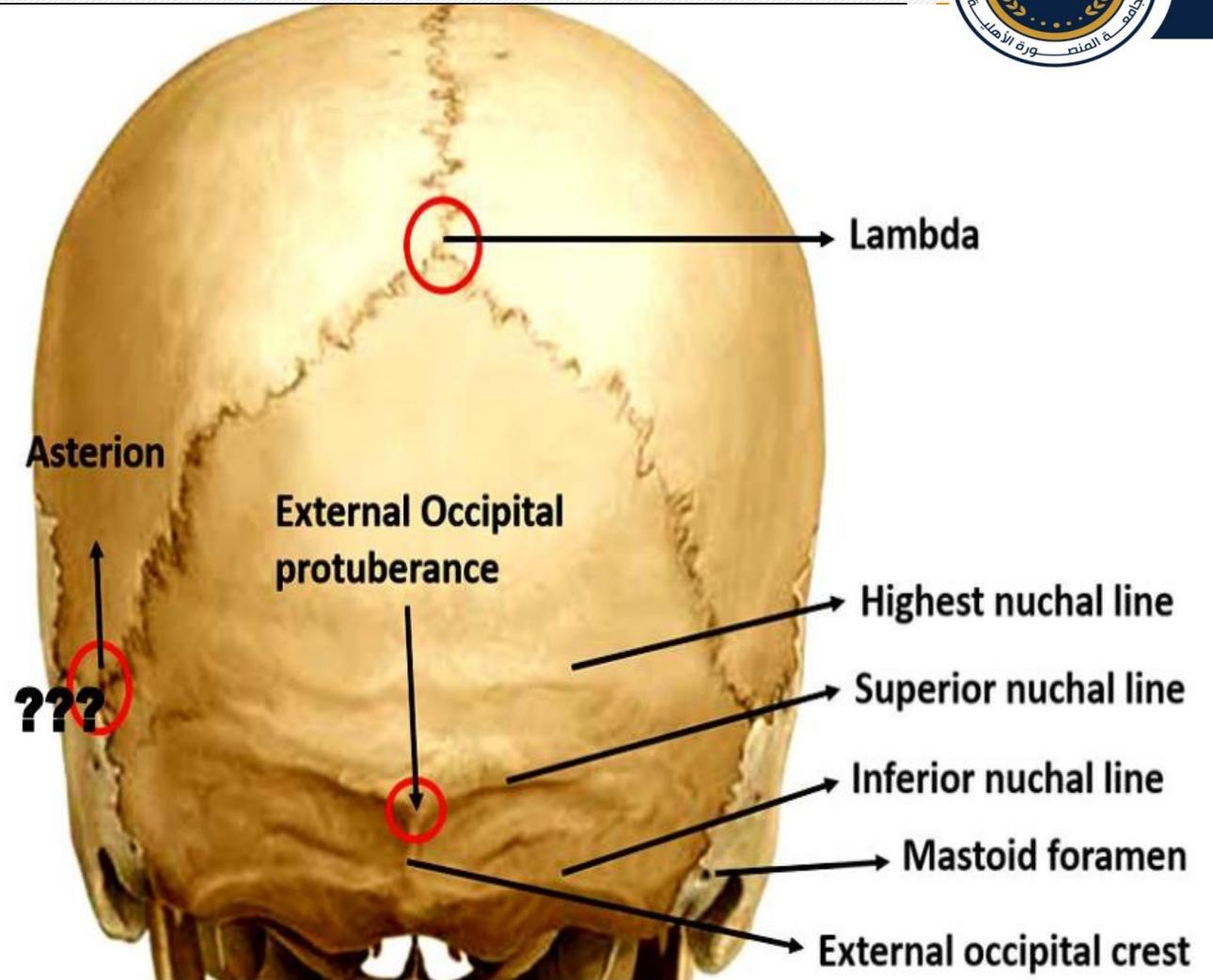
5 Bones: Occipital,
2 Parietal and 2 Temporal (mastoid)

4 Sutures: Sagittal, Lambdoid,
Parieto-mastoid and Occipito-mastoid



Norma occipitalis

6 special features:
Parietal emissary foramen
External occipital protuberance, highest nuchal line, superior nuchal line, inferior nuchal line and lambda



Norma Frontalis

Frontal bone

Nasal bone

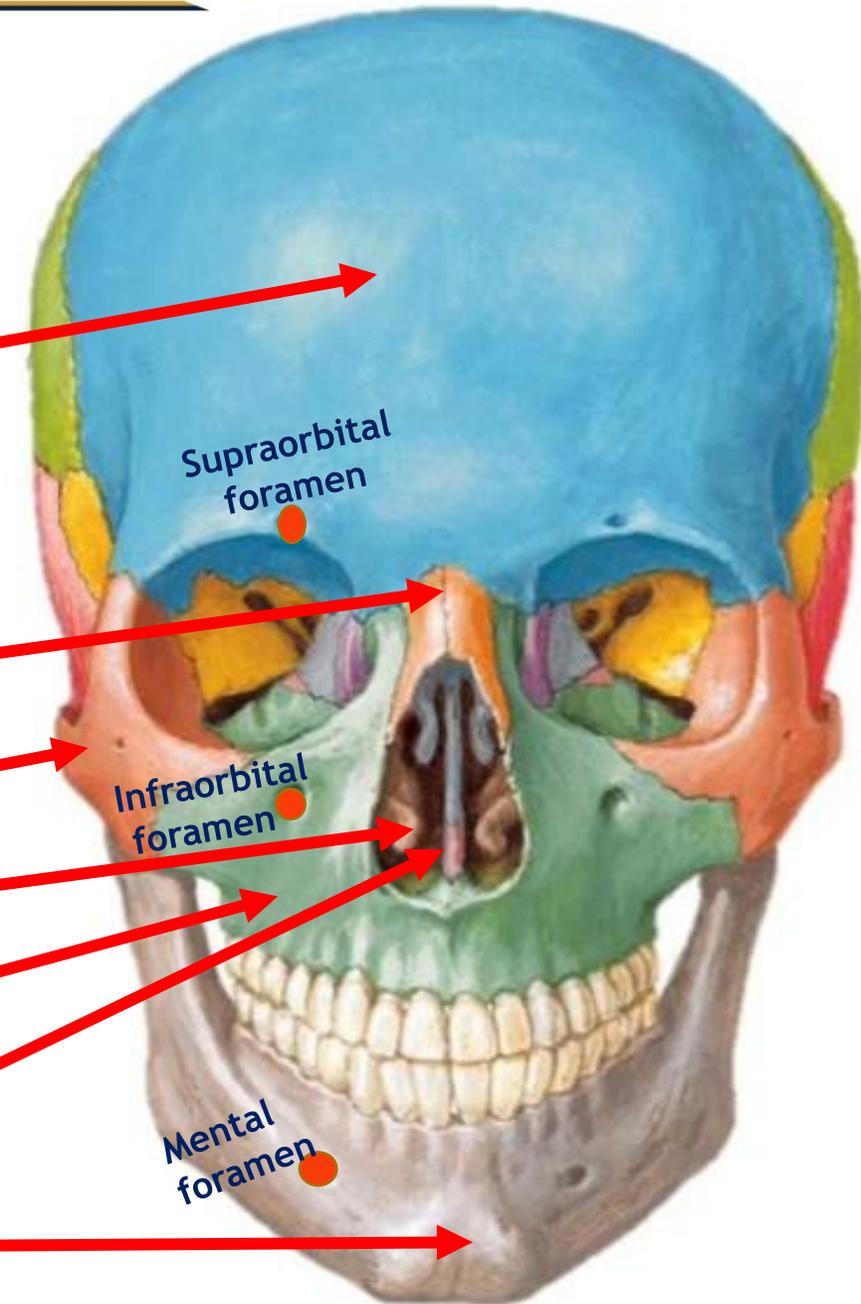
Zygomatic bone

Inferior concha

Maxilla

Nasal septum

Mandible



Norma Lateralis

PTERION:

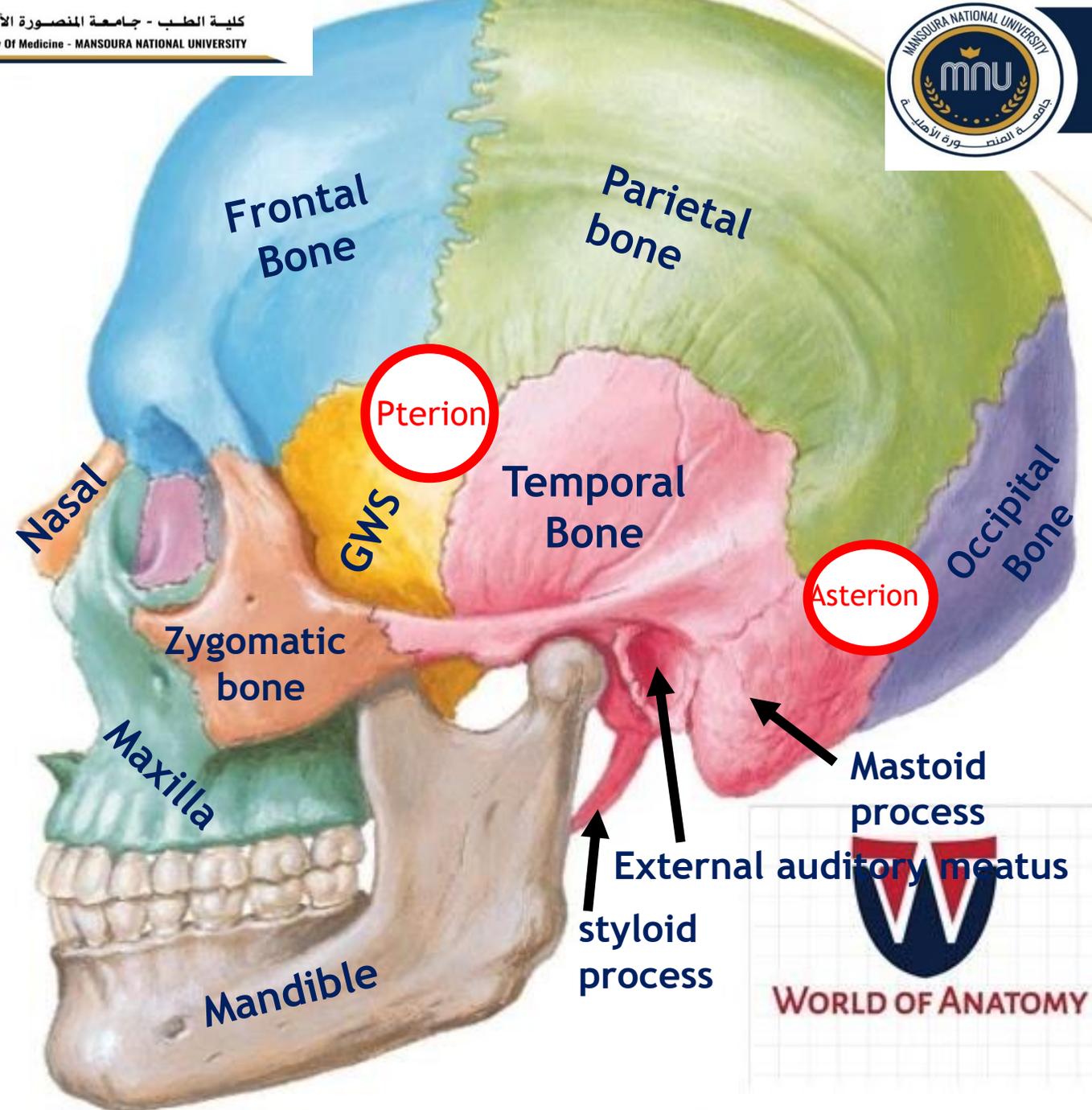
Meeting of 4 bones:

Frontal

Parietal

Temporal

Greater wing of sphenoid



Norma Lateralis

Asterion:

Meeting of 3 bones:

Parietal

Occipital

Temporal

