

OSTEOLOGY 6

Joints, fossae, canals and spaces of the skull. Please repeat all the cranial bones. Read about structures, spaces and joints listed below. Please analyze walls and communication of cranial fossae and spaces.

STRUCTURES TO BE RECOGNIZED^{i,ii}

CRANIAL SUTURES

Coronal suture
Sagittal suture
Lambdoid suture
Occipitomastoid suture
Sphenofrontal suture
Spheno-ethmoidal suture
Sphenosquamous suture
Sphenoparietal suture
Squamous suture
Frontal (metopic) suture
Squamomastoid suture
Frontonasal suture
Fronto-ethmoidal suture
Frontomaxillary suture
Frontolacrimal suture
Frontozygomatic suture
Zygomaticomaxillary suture
Ethmoidomaxillary suture
Ethmoidolacrimal suture
Sphenovomerine suture
Sphenozygomatic suture
Sphenomaxillary suture
Temporozygomatic suture
Internasal suture
Nasomaxillary suture
Lacrimomaxillary suture
Lacrimoconchal suture
Intermaxillary suture
Palatomaxillary suture
Palato-ethmoidal suture
Median palatine suture
Transverse palatine suture
DENTO-ALVEOLAR SYNDESMOSIS (GOMPHOSIS)
CRANIAL SYNCHONDROSESⁱⁱⁱ
Spheno-ocipital synchondrosis

Sphenopetrosal synchondrosis
Petrooccipital synchondrosis
Spheno-ethmoidal synchondrosis
CRANIAL SYNOVIAL JOINT
Temporomandibular joint
Articular disc
FONTANELLES
Anterior fontanelle
Posterior fontanelle
Sphenoidal fontanelle
Mastoid fontanelle
CALVARIA
Groove for superior sagittal sinus
Granular foveolae
Impressions of cerebral gyri
Arterial grooves
Sutural bones
CRANIAL BASE
Internal surface of cranial base
Anterior cranial fossa
Middle cranial fossa
Posterior cranial fossa
External surface of cranial base
Jugular foramen
Foramen lacerum
Bony palate
- Greater palatine canal
- Greater palatine foramen
- Lesser palatine foramina
- Incisive fossa
- Incisive canals
- Incisive foramina
- Palatovaginal canal
Vomerovaginal canal
FOSSAE OF THE CRANIUM
Temporal fossa
Zygomatic arch

Infratemporal fossa
Pterygopalatine fossa
Pterygomaxillary fissure
Orbit
Orbital cavity
- Orbital opening
- Orbital margin
* Supra-orbital margin
* Infra-orbital margin
* Lateral margin
* Medial margin
Roof
Floor
Lateral wall
Medial wall
- Anterior ethmoidal foramen
- Posterior ethmoidal foramen
- Lacrimal groove
- Fossa for lacrimal sac
Superior orbital fissure
Inferior orbital fissure
Nasolacrimal canal
Bony nasal cavity
Bony nasal septum
Piriform aperture
Superior nasal meatus
Middle nasal meatus
Inferior nasal meatus
Common nasal meatus
Spheno-ethmoidal recess
Nasopharyngeal meatus
Choana (posterior nasal aperture)
Sphenopalatine foramen

ⁱ in specimens and models

ⁱⁱ All the above structures are to be found and recognized during your laboratory class. Nevertheless, knowledge about other structures mentioned in your textbooks and atlases is obligatory as well. We can ask about them in the intermediate test and the final examination test. Some textbook figures can appear in the MCQ questions.

ⁱⁱⁱ There is no cartilage in dry bone specimens. The synchondroses are represented by fissures of the same name or may become synostoses in older skulls.