

PTA/OTA 106 Unit 1 / Lab 1: Topographical landmarks and bones

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TOPOGRAPHICAL LANDMARKS

Temporalis
Zygomatic arch
Condyle of the mandible
Masseter
Sternocleidomastoid
Edge of the Trapezius
Scalenes
Clavicle
Base of the mandible
Hyoid bone
Thyroid cartilage
Jugular notch
Occipital Triangle
Lesser Supraclavicular fossa
Posterior Cervical Region
Anterior Cervical Region
Submental Triangle
Carotid Triangle

AXIAL SKELETON

SKULL - Cranium Special Features
Sutures
Sagittal
Coronal
Squamosal
Lambdoid
Wormian/Sutural bones

Blood sinus sulci (grooves on of
cranium created by veins called
sinuses)

Superior sagittal sulcus
Transverse sulci
Sigmoid sulci

SKULL - Cranium Bones [8]

Frontal Bone [1]

Superciliary arch
Glabella
Supraorbital margin

Supraorbital notch (sometimes
foramen)

Parietal bones [2]

Occipital bone [1]

Foramen magnum
Occipital condyles
Hypoglossal canal (fossa)
External occipital protuberance
Superior nuchal line
Inferior nuchal line

Temporal bones [2]

Squamous portion
Zygomatic process
Mastoid portion
Mastoid process
Petrous portion
External auditory meatus
Mandibular fossa
Styloid process
Jugular fossa
Jugular foramen
Carotid canal (or
foramen)
Internal auditory meatus

Sphenoid bone [1]

Body
Greater wings
Lesser wings
Sella turcica (or Turk's saddle)
Chiasmatic groove
Hypophyseal fossa
Optic foramen
Superior orbital fissure
Pterygoid processes
Medial
Lateral
Foramen ovale
Foramen rotundum

Ethmoid bone [1]

Horizontal (or cribriform) plate
Crista galli
Perpendicular plate
Lateral masses (or labyrinths)
Superior concha
Middle concha
Ethmoid sinuses

SKULL - Facial Bones [14]

Mandible [1]

Body
Angle
Ramus
Condylar process (or head)
Neck
Coronoid process
Mandibular notch
Alveolar processes
Mandibular foramen
Mental foramen

Maxilla [2]

Alveolar process
Palatine process
Incisive fossa (or foramen)
Infraorbital foramen
Inferior orbital fissure
Lacrimal groove

Lacrimal bones [2]

Palatine bones [2]

Inferior nasal concha [2]

Nasal Bones [2]

Zygomatic (or malar) bones [2]

Temporal process (forming
zygomatic arch with temporal
bone)

Vomer [1]

SKULL - Facial Special Features

Nasal Septum formed by
Perpendicular plate of ethmoid
bone and the Vomer

Bone forming eye orbits

Frontal (roof of orbit)
Ethmoid (medial wall)
Lacrimal (medial wall)
Sphenoid (lateral wall)
Zygomatic (lateral wall)
Maxillary (floor)
Palatine (floor)

Hyoid [1]

Vertebra (general features)

Body
Neural arch
Pedicles
Laminae
Spinal (or vertebral) foramen
Transverse processes
Spinous process
Superior articulating processes
Inferior articulating processes
Intervertebral foramen

Cervical vertebrae [7]

Transverse foramen
Atlas (1st cervical)
Superior articular surface
Inferior articular surface
Axis (2nd cervical)
Odontoid process (or
dens)

Exercises from Trailguide:

1. Do Palpations in Trail 1 "Around the globe"
2. You can do them in a seated position by move head more prone or supine.