Major Openings in the Skull

1- Openings seen in a frontal view

Opening	Location	Structures passing through it
Supra orbital foramen	Frontal bone	Supra orbital nerve and vessels
Infra orbital foramen	Maxilla	Infra orbital nerve and vessels
Mental foramen	Mandible (near the apices of	Mental nerve and vessels
	lower premolars)	
Openings in the orbit		
Anterior ethmoidal	Medial orbital wall	Anterior ehmoidal nerve and vessels
foramen		
Posterior ethmoidal	Medial orbital wall	Posterior ehmoidal nerve and vessels
foramen		
Nasolacrimal canal	Lacrimal bone (anteromedial part	Nasolacrimal duct
	of orbit)	
Superior orbital fissure	Between greater and lesser wings	- Occulomotor nerve
	of the sphenoid	- Trochlear nerve
		- Abducens nerve
		- Branches of the ophthalmic
		nerve (Frontal, Lacrimal and
		Nasociliary)
		- Superior ophthalmic vien
Inferior orbital fissure	Between greater wing of the	- Zygomatic nerve
	sphenoid and maxilla	- Infraorbital nerve
Optic canal	Anterior part of Sphenoid bone	- Optic nerve
		- Ophthalmic artery

2- Openings seen in the lateral view

Opening	Location	Structures passing through it
Zygomaticotemporal	Zygomatic bone	Zygomaticotemporal nerve and
foramen		vessels
Zygomaticofacial	Zygomatic bone	Zygomaticofacial nerve and vessels
foramen		
Pterygomaxillary	Between maxilla and lateral	- Maxillary nerve
fissure	pterygoid plate	- Maxillary artery
External acoustic	Temporal bone	Sound waves
meatus		

3- Openings seen in a superior view

Opening	Location	Structures passing through it
Parietal foramina	Parietal bone (anterior to	Emissary veins
	lambdoid on either side of sagittal	
	suture)	

4- Openings seen in an interior view

Opening	Location	Structures passing through it
Anterior Cranial Fossa:		
Olfactory Foramina	Cribriform plate of ethmoid on either side of crista galli	Olfactory nerve fibers
Middle Cranial Fossa:		
Superior Orbital fissure	Has been explained previously	
Optic canal	Has been explained previously	

Foramen rotundum	Greater wing of sphenoid	Maxillary division of Trigeminal
	(posterior to the medial end of	nerve
	superior orbital fissure)	
Foramen Ovale	Greater wing of sphenoid	- Mandibular division of
	(posterolateral to foramen	Trigeminal nerve
	rotundum)	
Foramen Spinosum	Greater wing of sphenoid	- Middle meningeal artery
	(posterolateral to foramen ovale)	
Foramen lacerum	Between the apex of petrous part	- Internal carotid artery
	of the temporal bone and the body	
	of the sphenoid	
	Notes:	
	-Large irregular shaped foramen	-The carotid canal opens into the side
	- The inferior opening of the	of the foramen lacerum above the
	foramen lacerum in life is filled	closed inferior opening.
	by cartilage and fibrous tissue	
Posterior cranial fossa:		
Internal auditory	Middle of the posterior surface of	- Facial nerve
meatus	petrous part of temporal bone	- Vetibulocochlear nerve
Jugular foramen	Between the petrous part of	- Internal Jugular vein
	temporal bone and the basilar part	- Glossopharyngeal nerve
	of the occipital bone	- Vagus nerve
		- Accessory nerve
Foramen magnum	Middle of basilar part of the	- Spinal medulla
	occipital bone	- Vertebral arteries
Hypoglossal canal	- Anterior and above the	Hypoglossal nerve
	occipital condyle (inferior	
	view)	
	- Anteolateral to foramen	
	magnum (interior view)	

5- Openings seen in the inferior view

Opening	Location	Structures passing through it
Incisive foramen	Maxilla (anterior part of the hard palate)	Nasopalatine nerveNasopalatine branch of sphenopalatine artery
Greater Palatine	Between Palatine bone and	- Greater palatine nerve
foramen	maxilla (posterolateral corner of hard palate)	- Descending palatine branch of maxillary artery
Stylomastoid foramen	Between mastoid and lateral styloid processes	Facial nerve
Foramen oval Foramen spinosum Carotid canal Jugular foramen Foramen magnum Hypoglossal canal	Have been explained previously Note: carotid canal can be seen or a site posterolateral to pe	· ·

This is the End of the Appendix - Good Luck