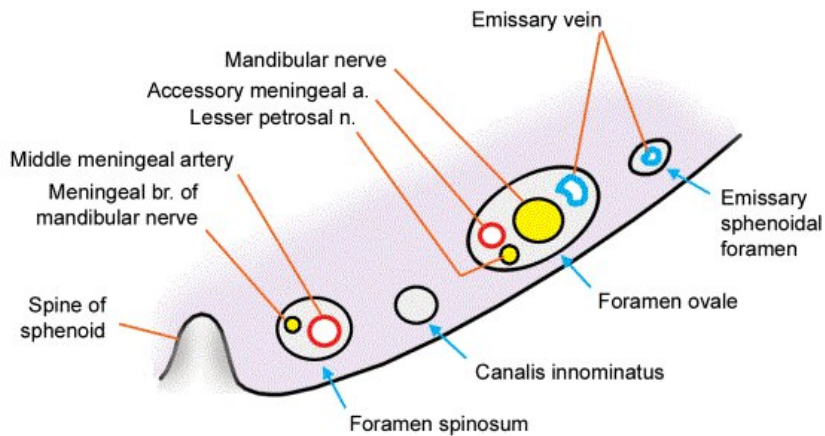
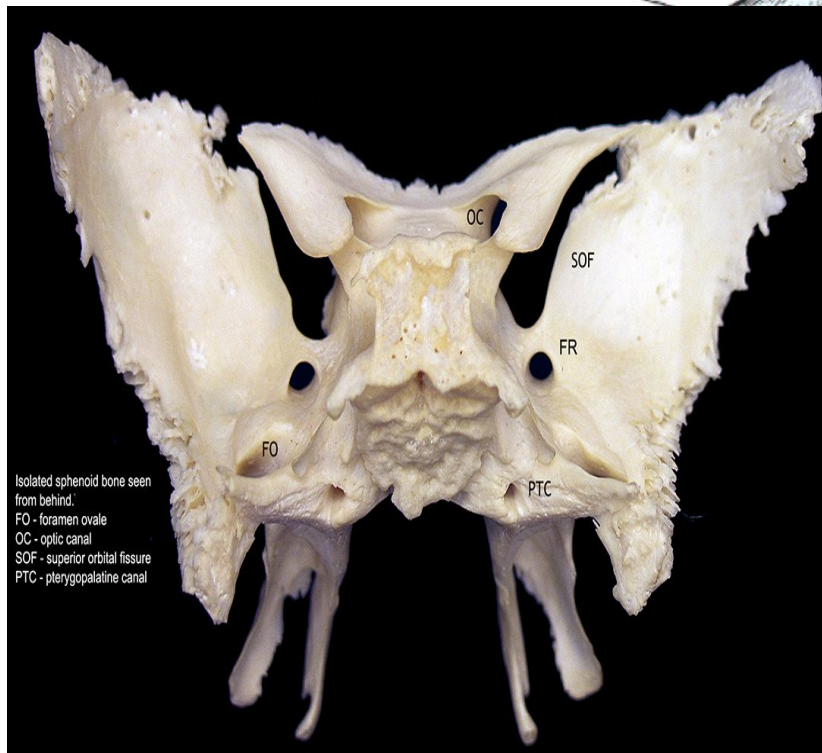
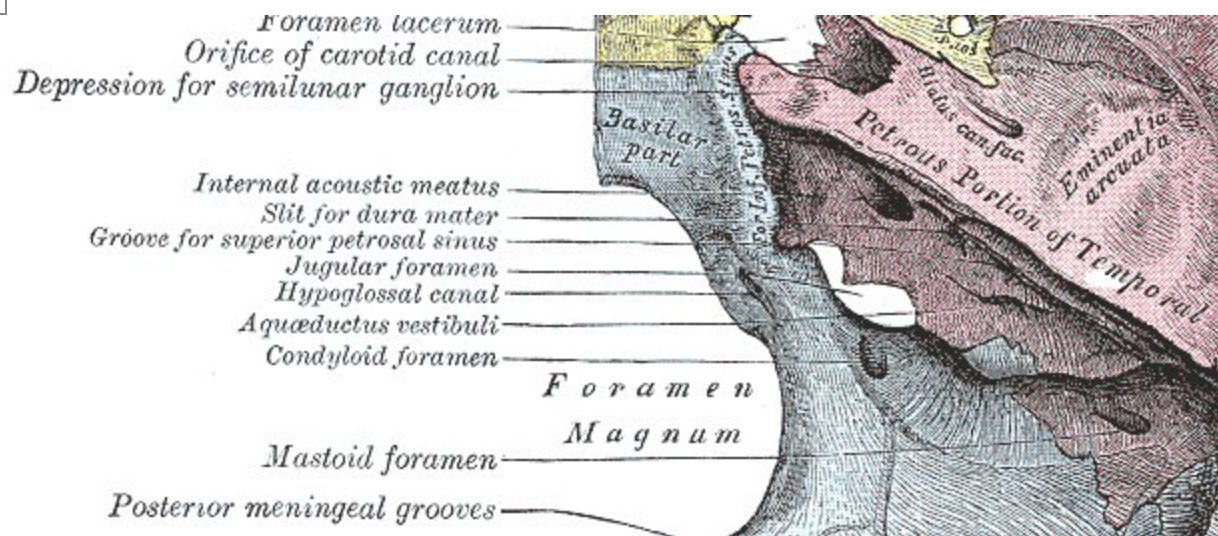
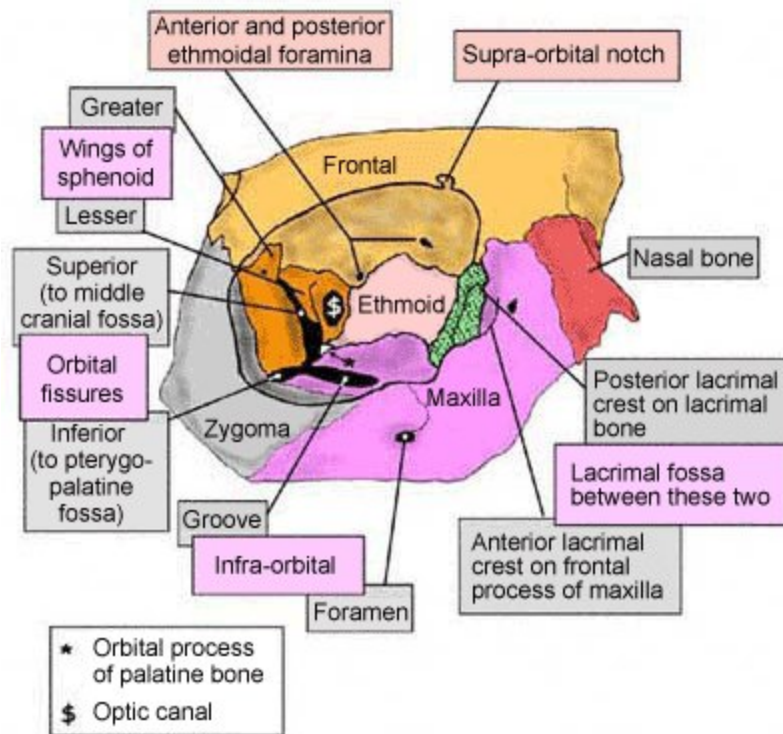


Foramen	Location	Nerve	Artery	Vein
Foramen cecum (if persists allow skin-dural communication)	In front of crista gali			Emissimnary vein between the nose & sup sagittal vein
Cribriform plate	Ethmoid bone	Olfactory nerve I		
Optic canal	Curvilinear portion of the lesser wing	Optic nerve II	Ophthalmic artery	
Superior orbital fissure	Between the greater & lesser wings Medially lies the sphenoid body	Nerve III,IV,VI Ophthalmic division of trigeminal nerve (V1)	Orbital branch of middle Meningeal a Recurrent branch of lacrimal artery	Superior Ophthalmic vein Superior orbital vein
Inferior orbital fissure	Between the greater wings & orbital surface of the maxilla & orbital process of the palatine bone	Infraorbital nerve Zygomatic nerve Small branches from sphenopalatine ganglion to the lacrimal gland	Infra-orbital vessels	Branch of inferior Ophthalmic vein that drain into pterygoid plexus
Infraorbital foramen		Terminal branch of V2		
Foramen rotundum	Greater wing of sphenoid	Maxillary division of trigeminal nerve (V2)		
Foramen ovale	Greater wing of sphenoid	Mandibular division of Trigeminal nerve (v3) Lesser petrosal nerve (IX) otic ganglion : is situated directly under the foramen in pterygoplatine fossa, but is also transmitted through the foramen ovale	Accessory Meningeal artery	Emissary veins : from the cavernous sinus to the pterygoid plexus
Foramen spinosum	Greater wings of sphenoid	Menigeal branch of Mandibular division (V3)	Middle Meningeal artery	middle meningeal vein
Vidian canal	Greater wings of sphenoid	Vidian nerve		

Foramen lacerum	Between greater wings of Sphenoid bone Petrous tip basilar part of occipital bone		Internal carotid artery	
Internal acoustic meatus	Petrous part of temporal bone	Facial nerve Vestibulochochlear N	Labyrinthine artery	
Jugular foramen	Between the occipital & temporal bone	IX,X,XI	Meningeal artery	Inferior & transverse petrosal vein Jugular vein
Hypoglossal canal	Entrance: Medial aspect of the occipital bone Exit: lateral to occipital condyle	Hypoglossal nerve	Meningeal artery	
Foramen magnum	Occipital & sphenoid bone	Spinal root of Accessory nerve		
Sphenopalatine foramen			Sphenoplatine artery	







infra orbital fissure nerve

content

Note: Foramen rotundum: pterygoid fossa: inferior orbital fissure

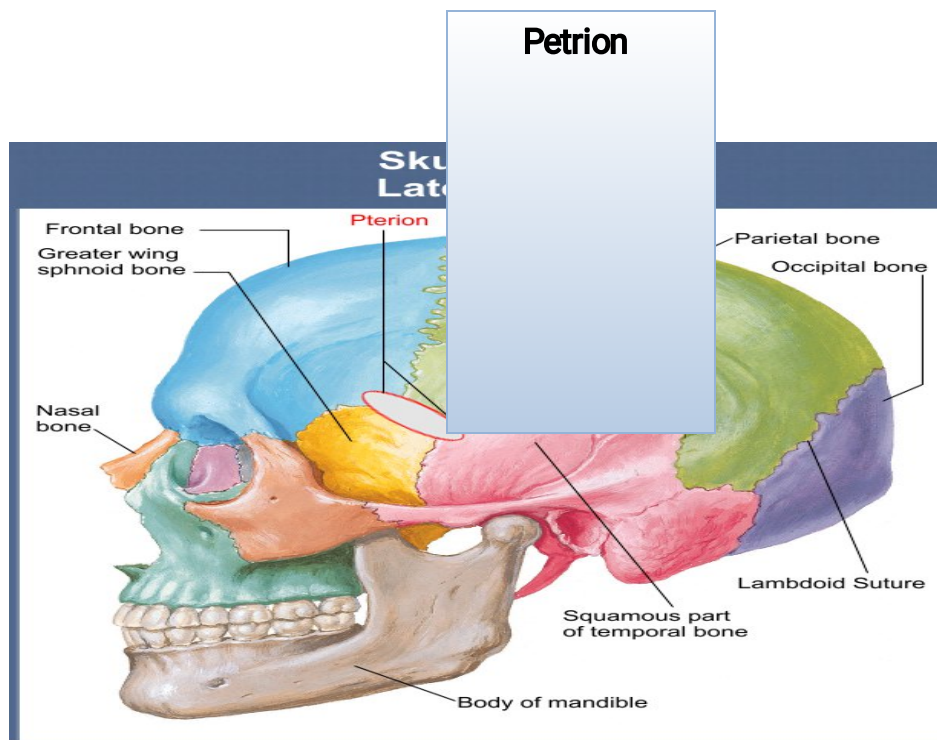
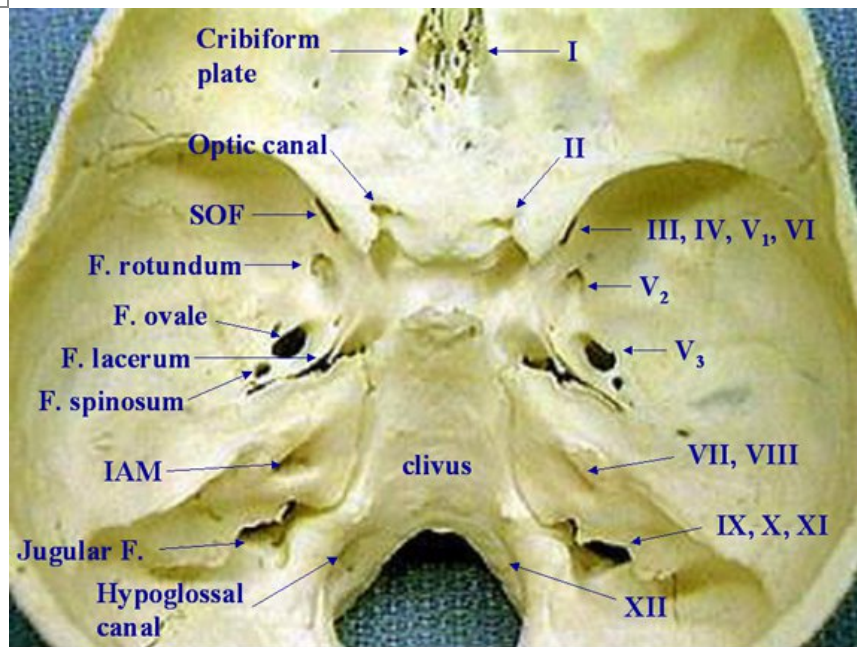
V2 goes through **foramen rotundum**

Terminal branch of V2 (**infra-orbital branch**) goes through the **infra-orbital foramen**

Note: in 40% an emissary venous sphenoid foramen is found, related to foramen ovale

note: the lesser superficial petrosal nerve sometimes passes through a special canal (canaliculus innominatus of Arnold), situated **medial** to the foramen spinosum)

The contents of this foramen neatly form the mnemonic '**OVALE**' (otic ganglion, V₃, accessory meningeal artery, lesser petrosal nerve, emissary veins).



Pterion is the point where all of the following bones meet:

1. Frontal bone
2. Parietal bone
3. Greater wings of the sphenoid bone
4. Squamous part of the temporal bone

