Pituitary Gland

Anatomy Practical

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Anatomy Department

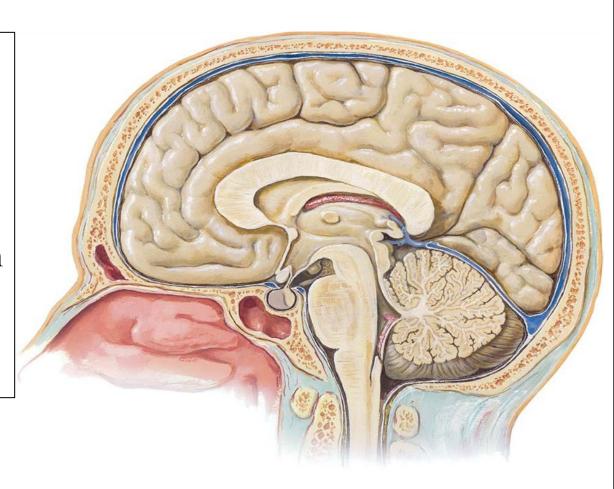
College of Medicine

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Pituitary Gland

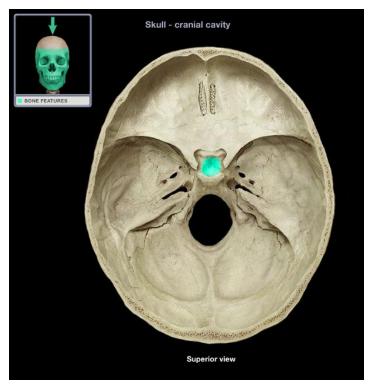
Definition

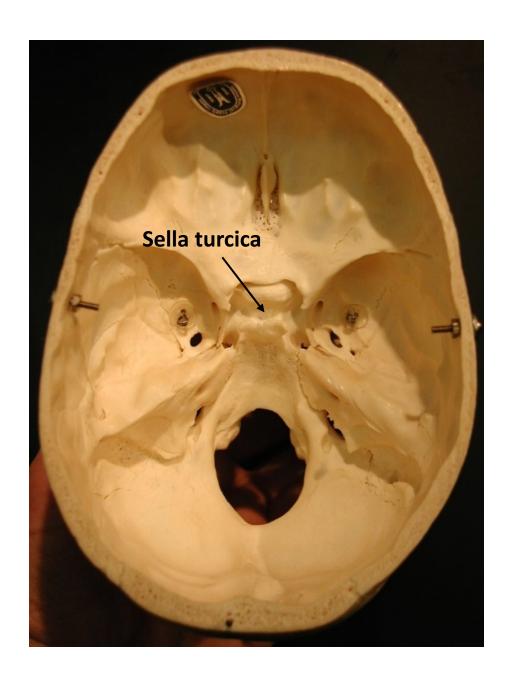
Pituitary gland or hypophysis cerebri is a small oval structure attached to the undersurface of the brain by the infundibulum. It is called the master endocrine gland.



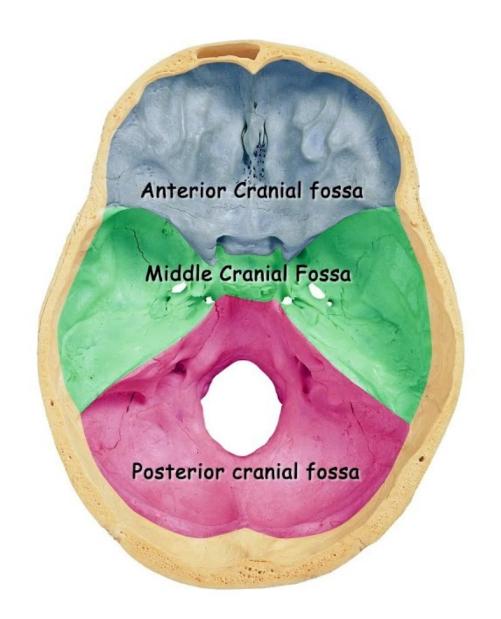
Location:

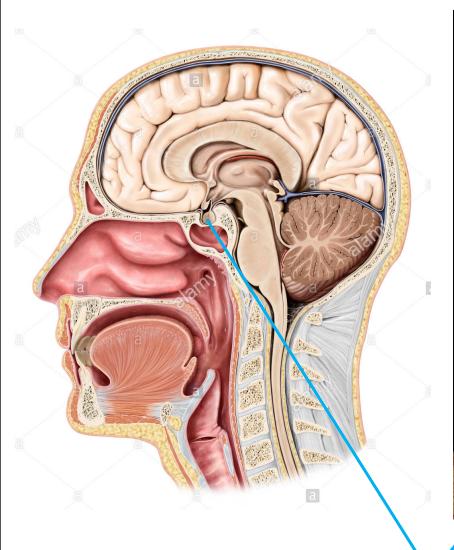
In the sella turcica (hypophyseal fossa) of the body of sphenoid bone.

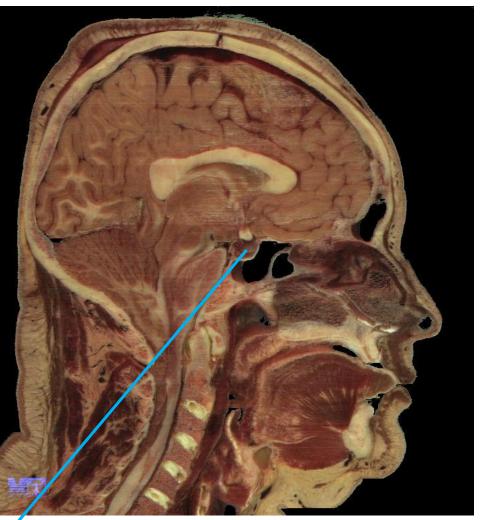




The sella turcica is found in the **middle** cranial fossa of the skull.

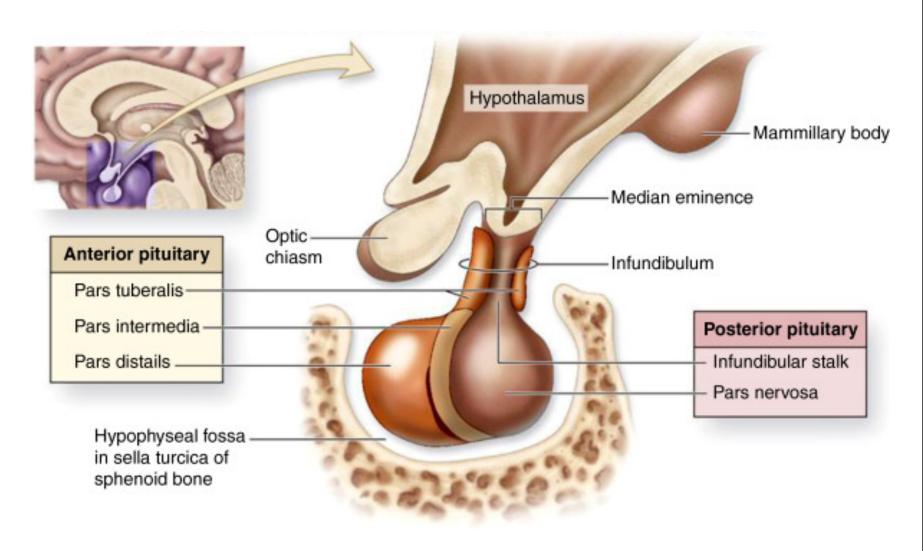


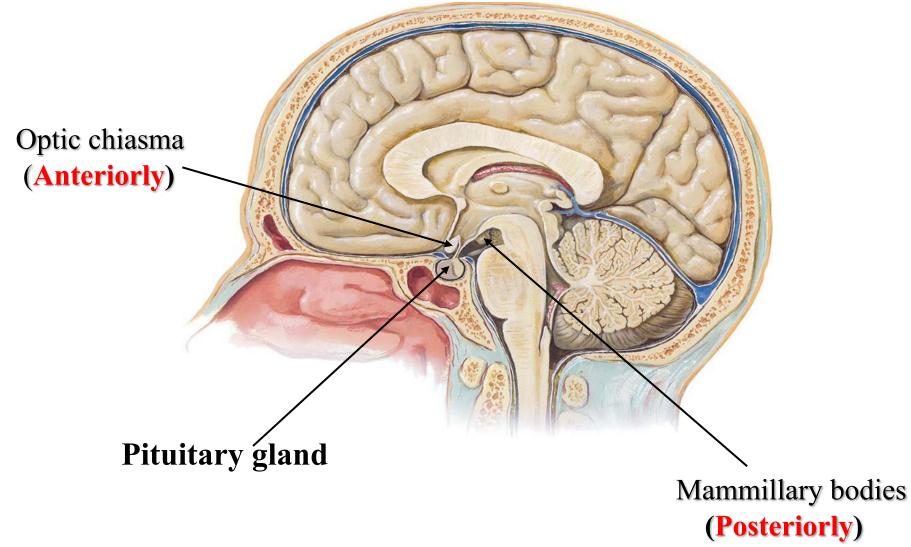




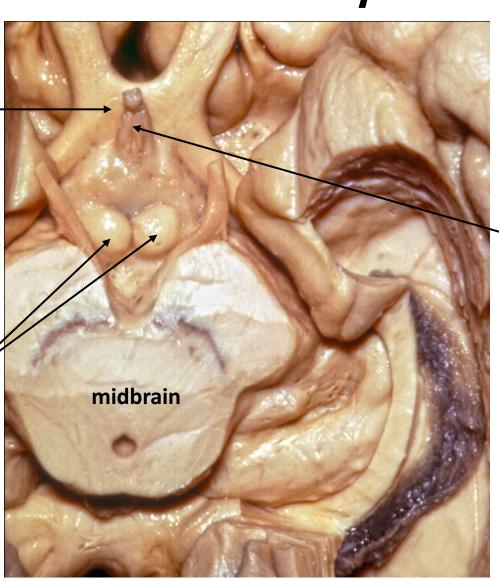
Pituitary gland

SUBDIVISIONS OF PITUITARY GLAND





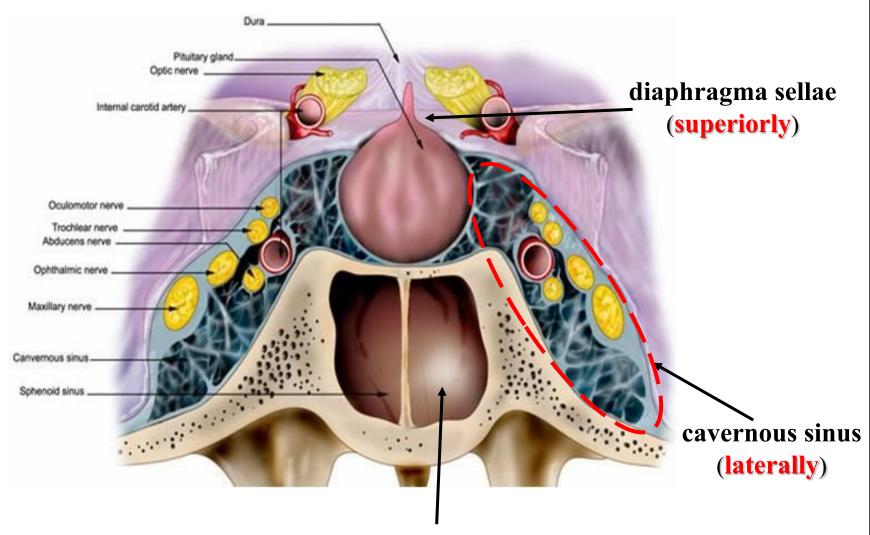
Optic chiasma (Anteriorly)



Infundibulum (pituitary stalk)

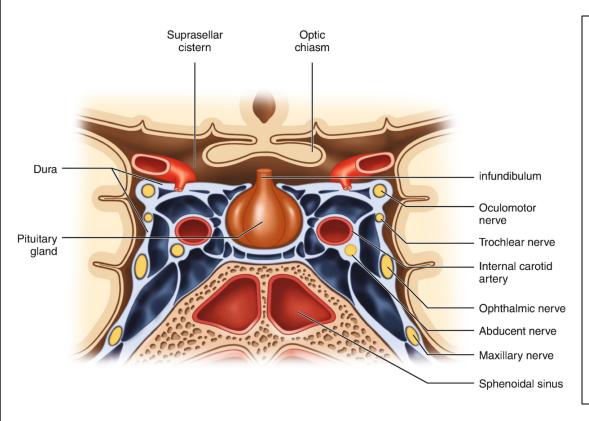
Mammillary bodies (Posteriorly)

Inferior view of the brain



sphenoidal air sinuses

(Inferiorly)



- The cavernous sinus is a dural venous sinus. it's walls are made of dura, and it is lined by endothelium.
- The sinuses are situated on each side of the body of sphenoid.
- The internal carotid artery and abducent nerve pass **through** the sinus, while the 3rd, 4th, ophthalmic and maxillary nerves run in the **lateral** wall of the sinus.

cavernous sinus

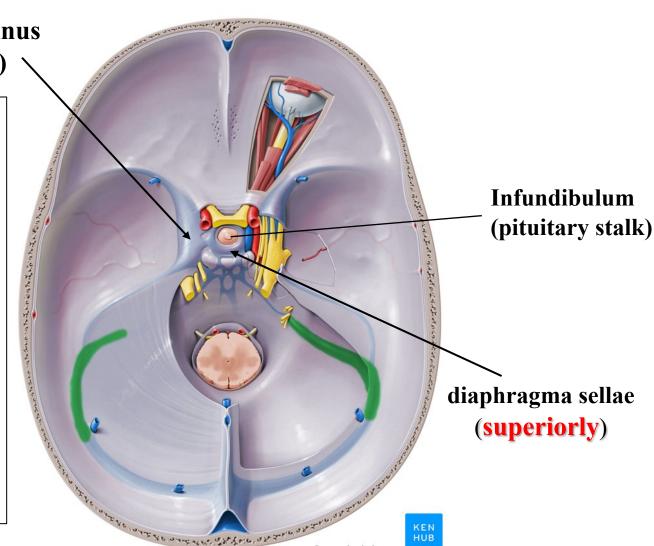
(laterally)

N.B.:

In this diagram, the right cavernous sinus is **open**, while left sinus is **closed**.

Diaphragma sellae:

Is a **fold** of dura mater covers the pituitary gland & has an opening for passage of infundibulum (pituitary stalk), that connects the gland to the hypothalamus.

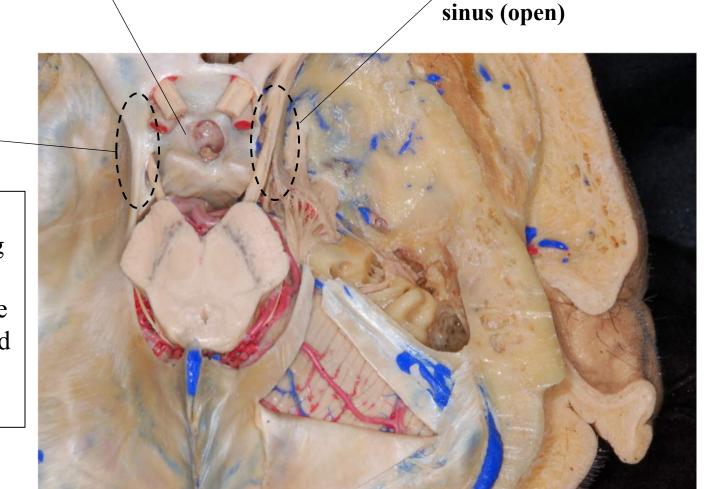


diaphragma sellae

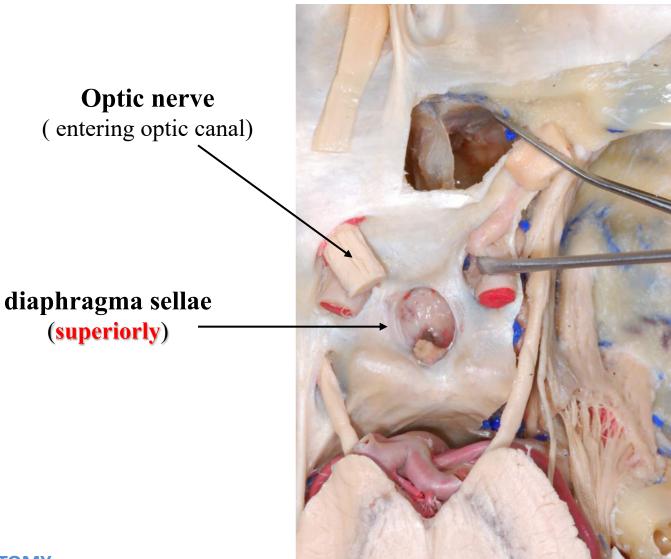
Left cavernous sinus (closed)

N.B.:

The picture showing cranial cavity, with pituitary gland in the sella turcica, covered by diaphragma sellae.



Right cavernous



Relations of pituitary

Posteriorly:

dorsum sellae, basilar artery, pons and mammillary bodies

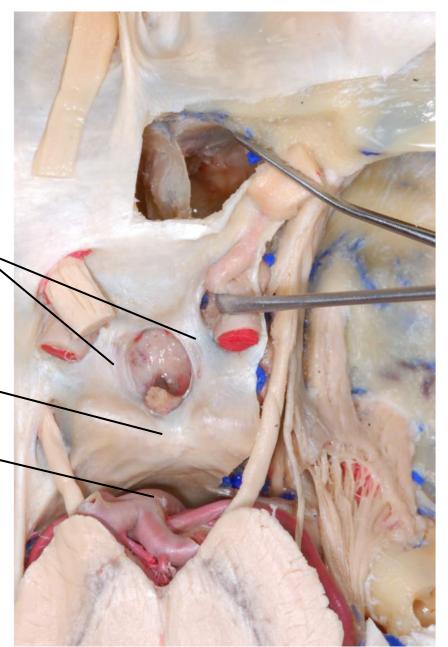
Superiorly:

Diaphragma sellae

Diaphragma sellae

Dorsum sellae

Basilar artery



mb: midbrain

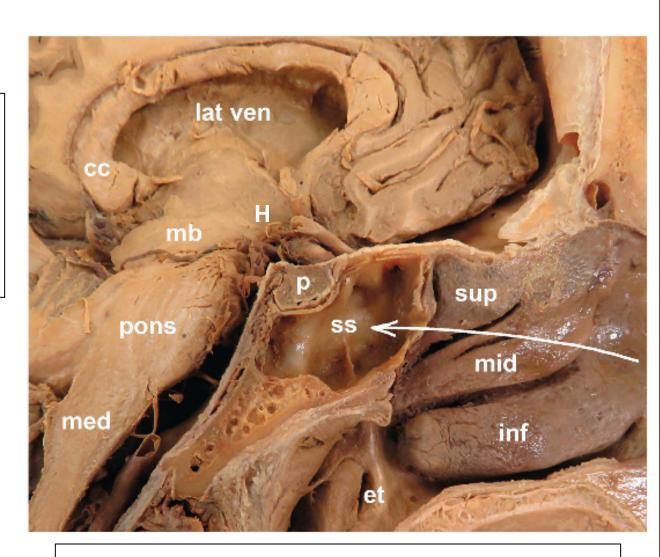
med: medulla oblongata

P: pituitary gland

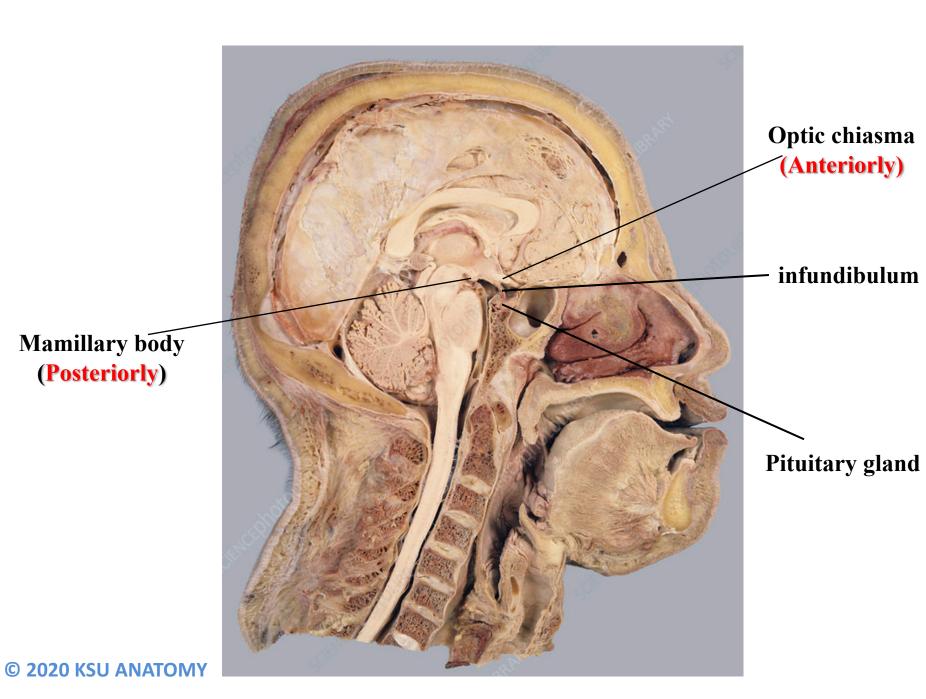
ss: sphenoid air sinuses

cc: corpus callosum

H: hypothalamus



Sagittal section of head



Thank You

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