





pituitary gland

Before going through the contents, make sure you check this **CORRECTION FILE** first

Pituitary gland Pituitary relations The master of endocrine glands superiorly inferiorly laterally Anteriorly posteriorly small oval structure 1 cm in diameter It doubles its size during Diaphragma Sphenoidal Cavernous Optic Mammillary sellae air sinuses chiasm bodies sinus pregnancy Lies in the middle cranial fossa Structures related laterally to the pituitary protected in sella turcica A fold of dura mater gland: (hypophyseal fossa) of body of covers the pituitary Passing through cavernous sinus: sphenoid gland & has an opening 6th CN for passage of internal carotid artery infundibulum (pituitary Lateral to the cavernous: stalk) connecting the Those relations were 3rd, 4th and 5th(only maxillary & ophthalmic mentioned by Snell & gland to hypothalamus. branches) Drs of practical inferior superior lateral posterior Diaphragma Sphenoid sinus Cavernous Dorsum sellae sellae) sinus Sphenoid body Basilar artery (the bone itself) Optic pons chiasm(anterior lobe only

SUBDIVISIONS OF PITUITARY GLAND				
Anterior Lobe (Adenohypophysis)	Posterior Lobe (Neurohypophysis)			
The true gland	connected to hypothalamus through hypothalamo- hypophyseal tract			
synthesizes & Secretes hormones	Stores hormones secreted by hypothalamic nuclei			
Hormone-releasing & inhibiting factors produced by hypothalamus use Hypophyseal Portal System to reach the Anterior lobe of pituitary gland	receives a nerve supply from some of the hypothalamic nuclei (supraoptic & paraventricular) The axons of these nuclei convey their neurosecretion to the Posterior lobe of pituitary gland through Hypothalamo-Hypophyseal tract from where it passes into the blood stream.			

	BLOOD SUPPLY OF PITUITARY GLAND				
			Arteries	Veins	
	name	Superior & Inferior hypophyseal arteries		Hypophyseal veins	
pitalially glaria	origin	Internal Carotid artery		Cavernous Sinuses	
	Superior hypophyseal		Inferior hypophyseal		
	Supplies the infundibulum & forms the hypophyseal portal system		supplies posterior lobe		

MCQs

- 1. Which of these arteries gives the hypophyseal portal system?
- A. Basilar artery
- B. Superior hypophyseal artery
- C. Inferior hypophyseal artery
- D. External carotid artery
- 2. Which pituitary lobe depends mostly on the hypothalamohypophyseal tract for its function to be full filled?
- A. Antreior lobe
- B. Posterior lobe
- C. Adenohypophysis cerebri
- D. Symphysis pubis
- 3.In case of pituitary adenoma involving only the anterior lobe, compressing on the optic chiasm. which of these symptoms would be mostly pronounced?
- A. Visual disturbance
- B. Sensory ataxia
- C. Loss of near memory
- 4. Which of the meningeal layers forms the diaphragm sellae?
- A. Dura matter
- B. Pia matter
- C. Arachnoid matter

- 5. During which period does the pituitary gland doubles its size?
- A. Pregnancy
- B. Lactation
- C. Puberty
- D. Prepuberty
- 6.which of the following sinuses lies inferiorly to the pituitary gland?
- A. The frontal sinus
- B. The maxillary sinus
- C. Ethmoidal sinuses
- D. The sphenoidal sinus
- 7. Conveing the hormone-releasing/inhibiting factors of the hypothalamus to the pituitary gland is the function of which of the following?
- A. Cavernous sinus
- B. Hypophyseal vein
- C. Inferior hypophyseal artery
- D. Hypophyseal portal system

THANK YOU FOR CHECKING OUR WORK GOOD LUCK DOCTORS

key answers:

1.B

2.E

3.A

4.A

5.A 6.D

7.D

Make a habit of two things: to helpi or at least to do no harm.

-Hippocrates



For any question, correction or suggestion, don't hesitate to contact us on: anatomyteam434@gmail.com