

# RADIOLOGY TEAM WORK

## Lecture I : RADIOLOGY OF PITUITARY GLAND

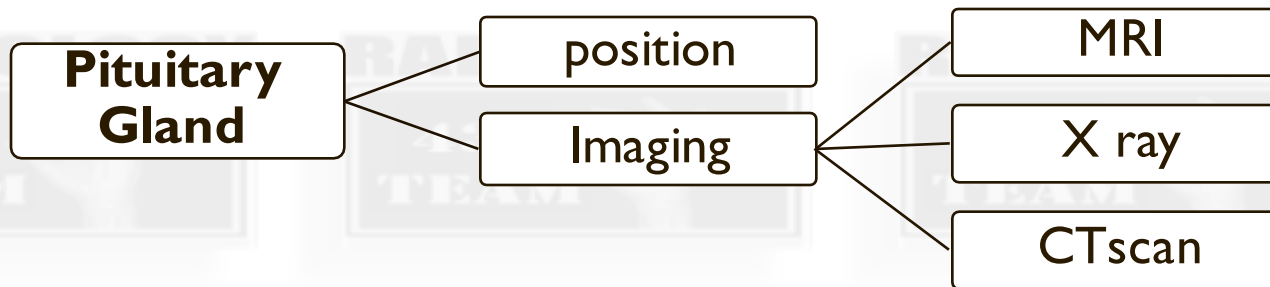
### ENDOCRINE SYSTEM

- You have to study Anatomy lectures first

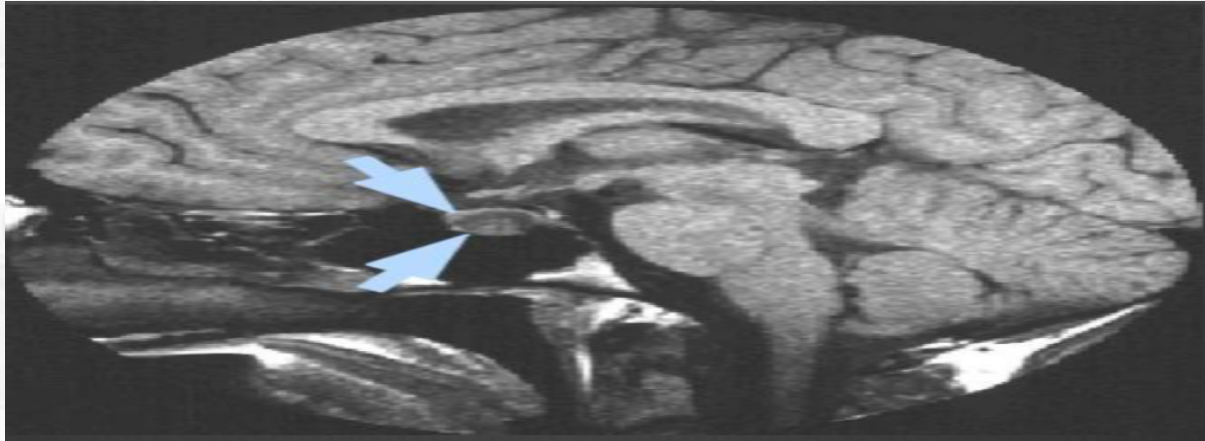
# OUTLINE:

- Describe the **position** of the pituitary gland.
- List the **structures related** to the pituitary gland.
- Differentiate between the **lobes** of the gland.

# MIND MAP

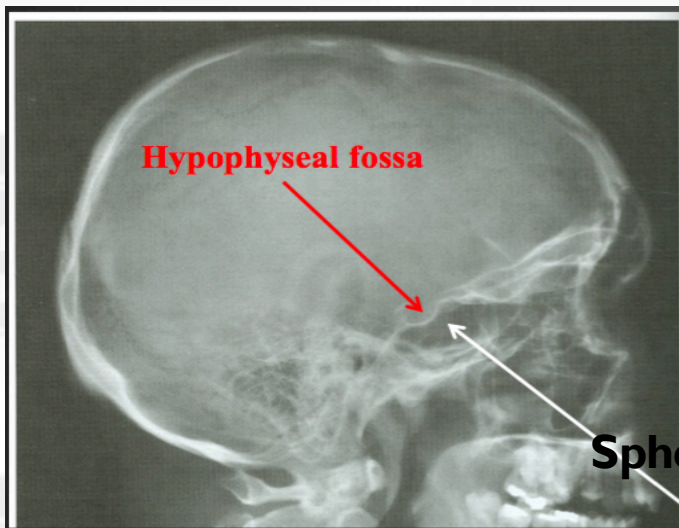


# PITUITARY GLAND

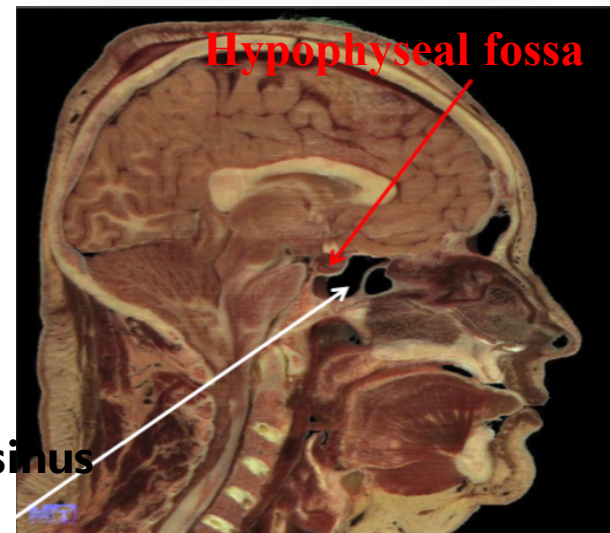


- It is referred to as master of endocrine glands.
- It is a small oval structure 1 cm in diameter

## LATERAL VIEW

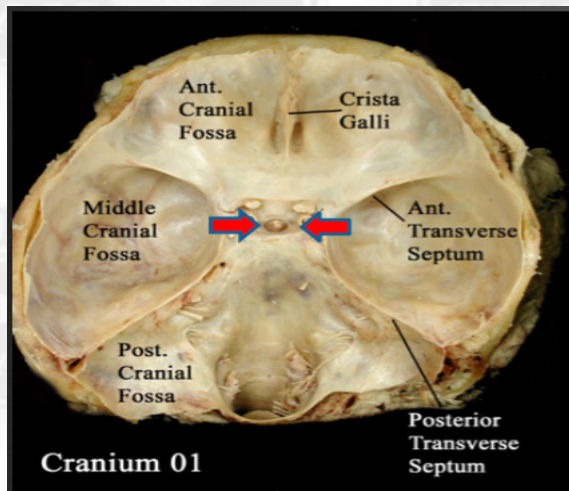
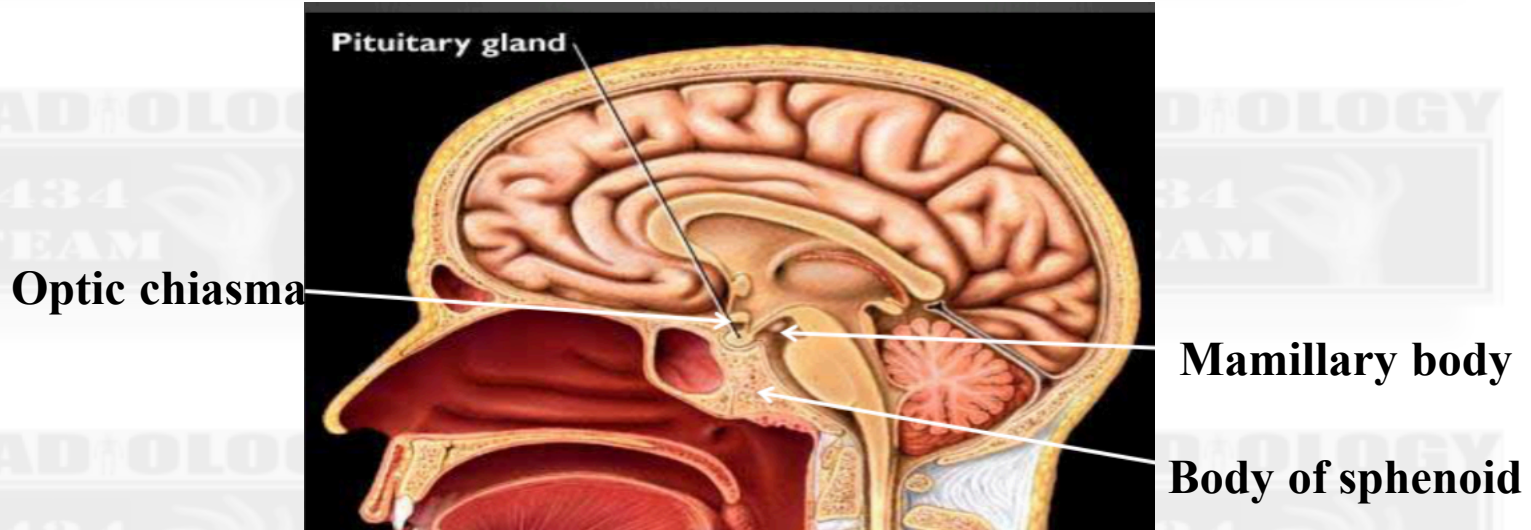


## SAGITTAL SECTION

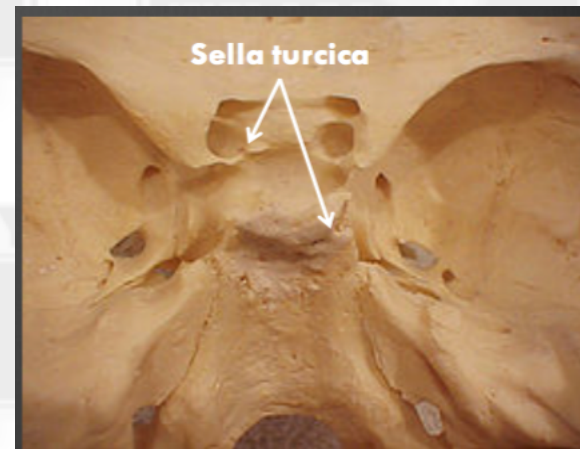


# POSITION

It lies between **Optic chiasma** (ant) and **Mamillary body** (post)



It lies in the middle cranial fossa



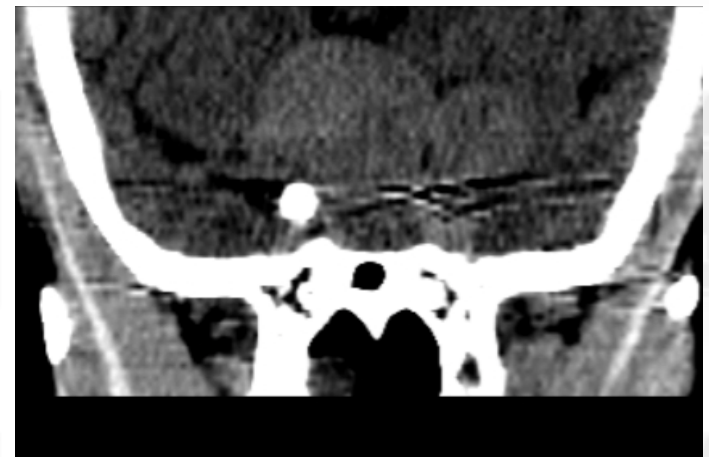
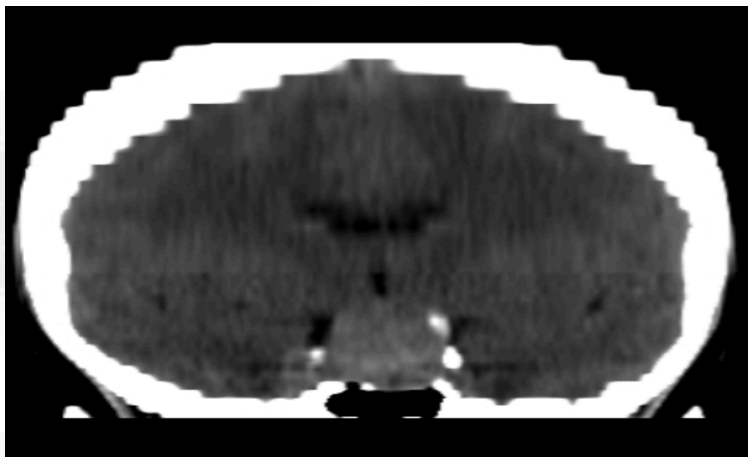
It is well protected in **Sella Turcica** (hypophyseal fossa)

# INDICATION FOR IMAGINE THE PITUTERY GLAND

- ❖ **Hormonal dysfunction**
  - Cushing syndrome
  - Growth abnormalities e.g. Growth hormone deficiency, acromegaly
- ❖ **Visual abnormality.**
- ❖ **Headache.**

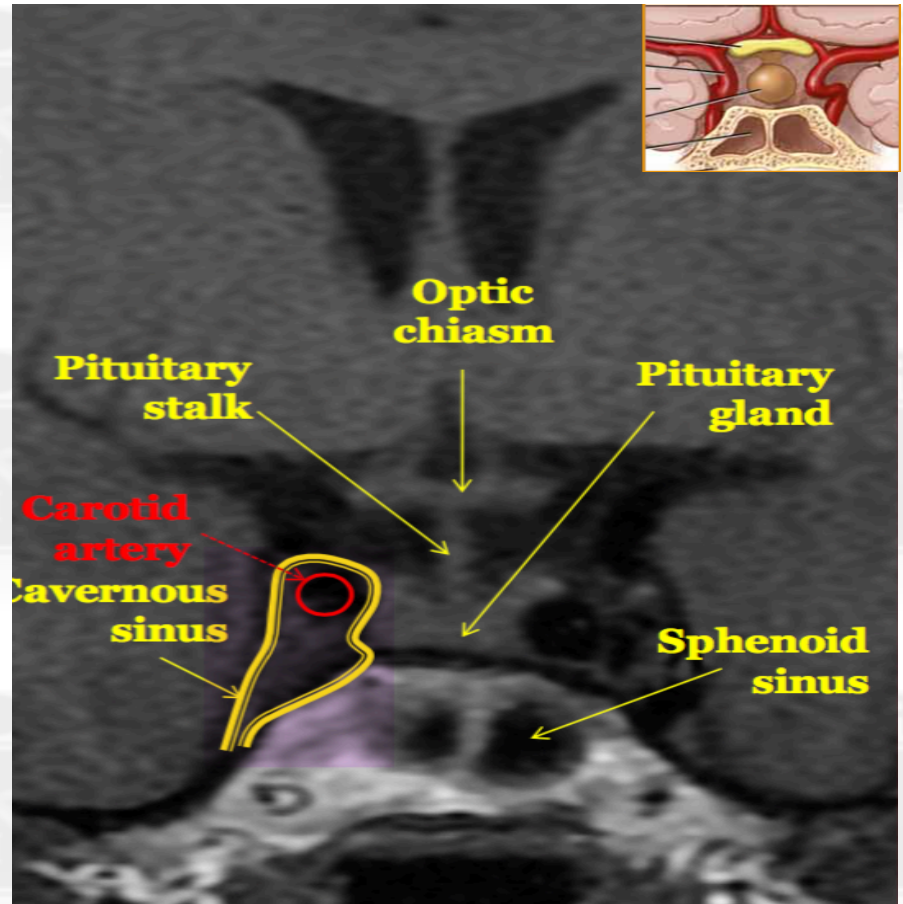
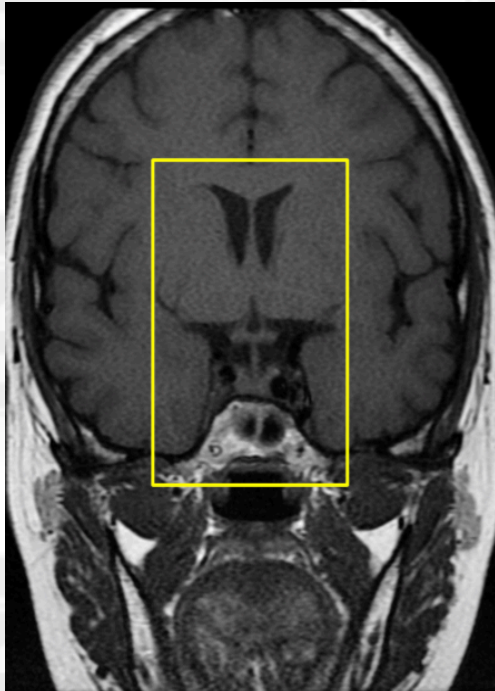
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## CT SCAN





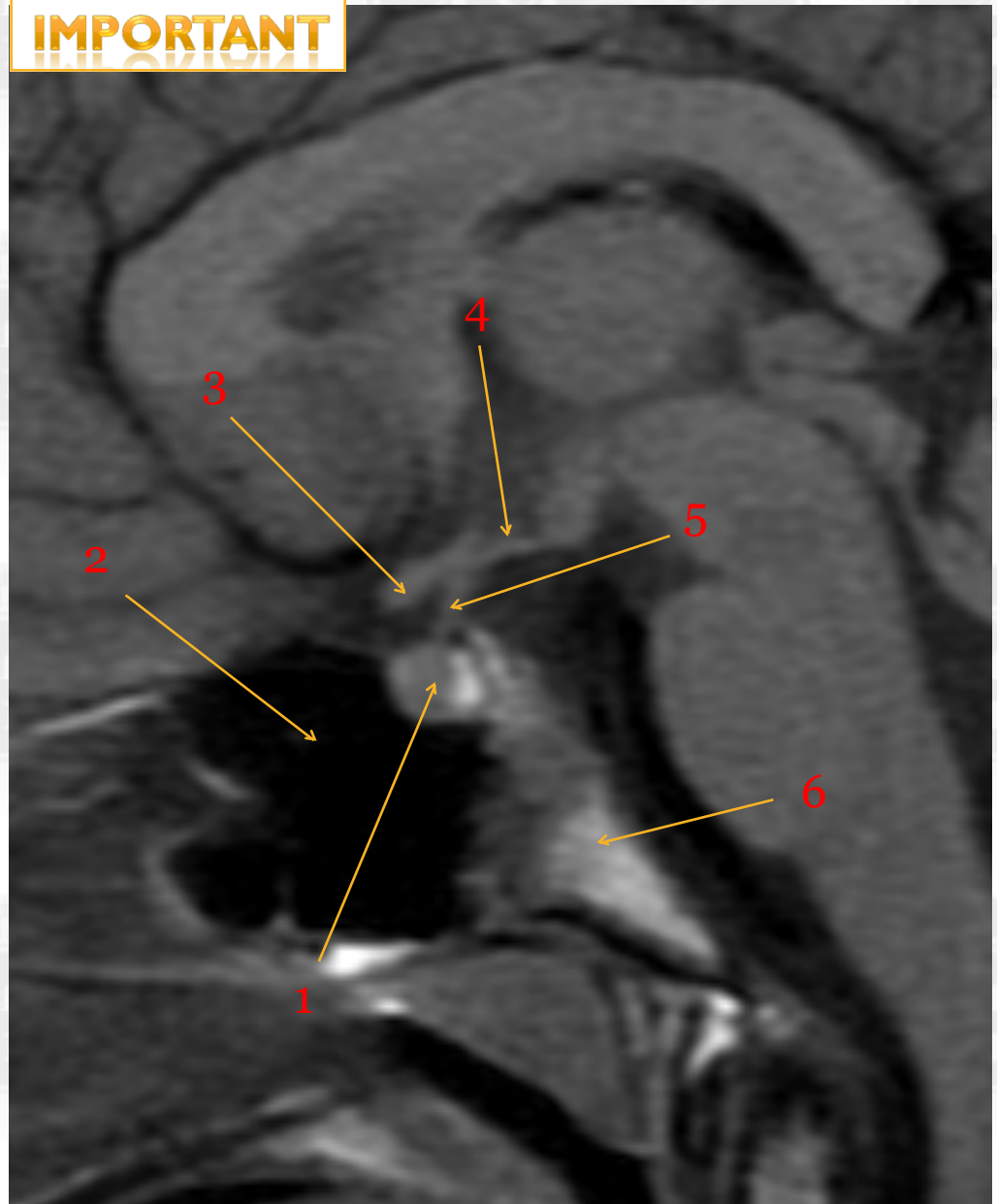
# NORMAL MRI



# NORMAL MRI

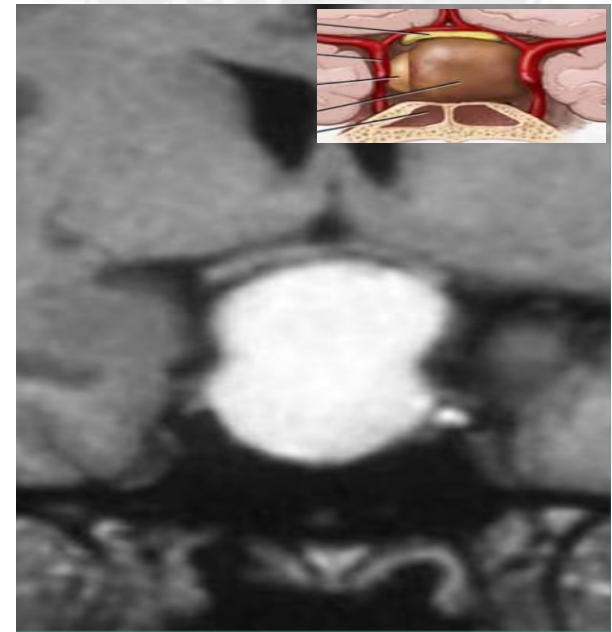
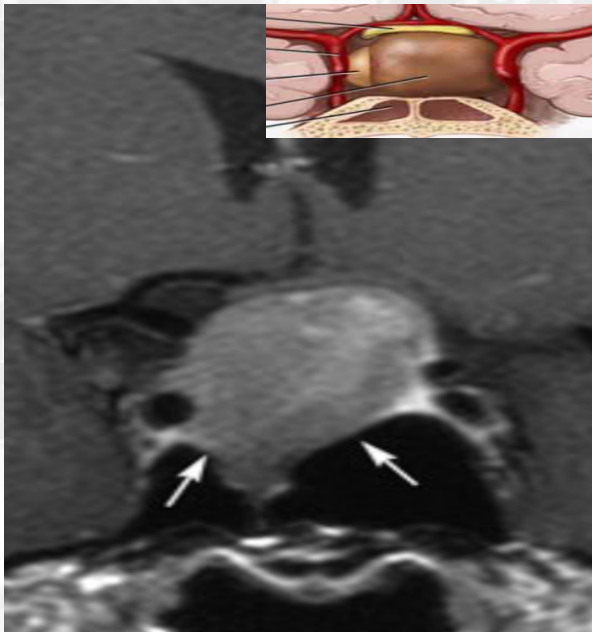
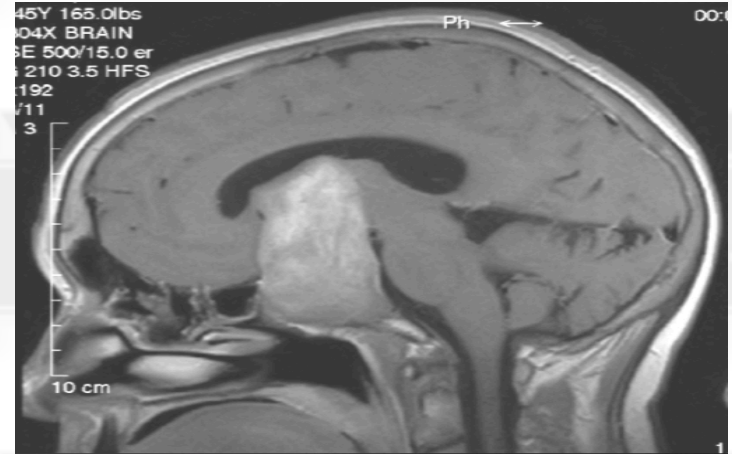
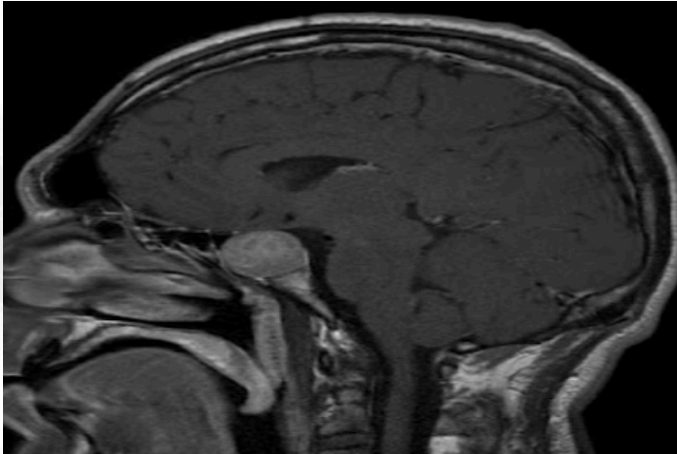


**IMPORTANT**



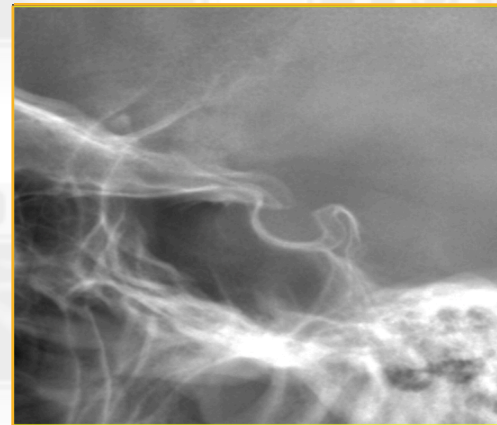
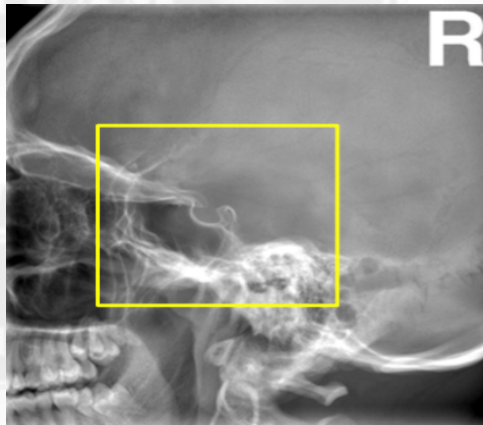
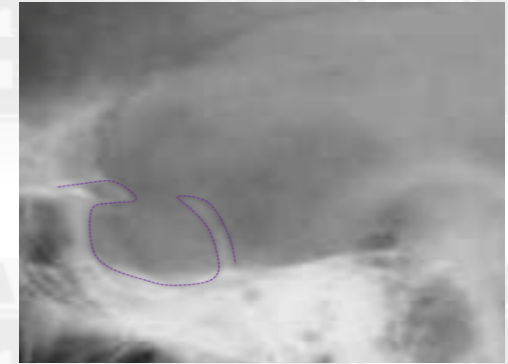
- 1- Pituitary gland**
- 2- Sphenoid sinus**
- 3- Optic chiasm**
- 4- Hypothalamus**
- 5- Pituitary stalk**
- 6- Clivus**

# PITUITARY ADENOMA

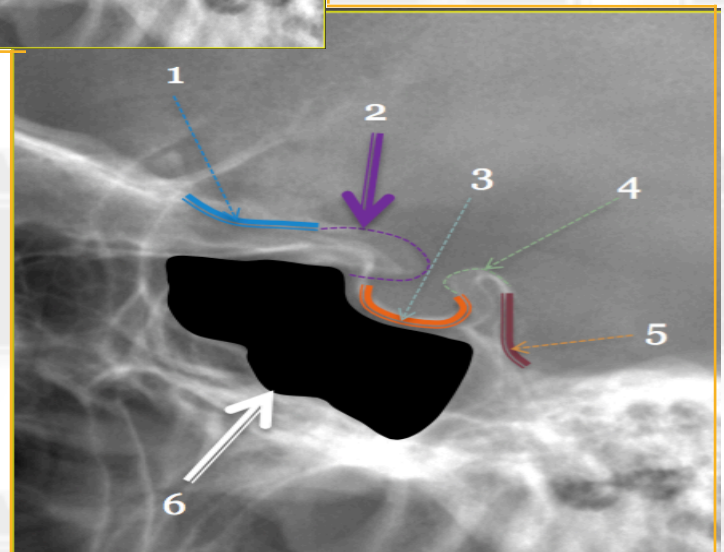




# X RAY



- 1- Optic sulcus
- 2- Anterior clinoid process
- 3- Floor of sella turcica (Pituitary fossa)
- 4- Posterior clinoid process
- 5- Dorsum sella
- 6- Sphenoid sinus



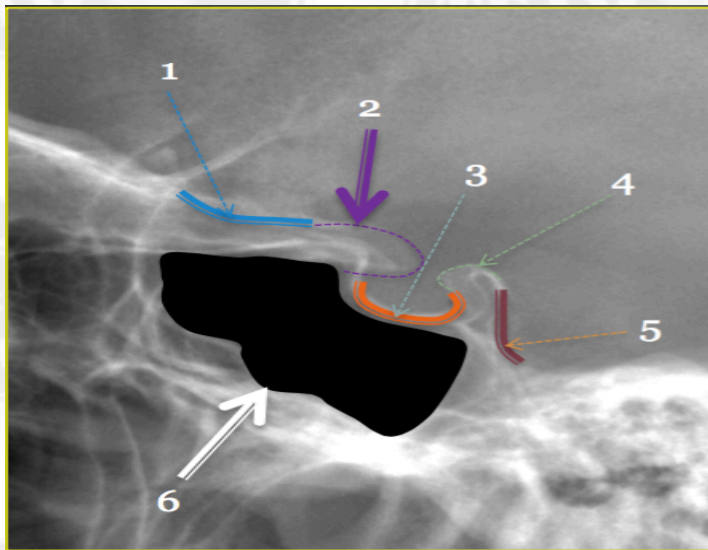
# QUESTIONS

1/ What is the best modality to image the pituitary gland ?

- A. X ray
- B. CT scan
- C. MRI
- D. US
- E. Nuclear medicine

A: c

2/ Identify :



3/ when can we indicate the imaging of pituitary gland ??

- Hormonal dysfunction
- visual abnormality
- headache

- 1- Optic sulcus**
- 2- Anterior clinoid process**
- 3- Floor of sella turcica (Pituitary fossa)**
- 4- Posterior clinoid process**
- 5- Dorsum sella**
- 6- Sphenoid sinus**

# Done by

- ❖ Lolowah Alghuson
- ❖ Ibtihal al-mshawi

An X-ray image of two hands, palms facing each other, with the bones clearly visible against a dark background. The hands are positioned symmetrically, with fingers slightly spread.

**Thank you**

**For checking our team**