

# OSPE Radiology Pituitary & Adrenal Glands



KSU | Collage of Medicine 2nd Year | CNS BLOCK

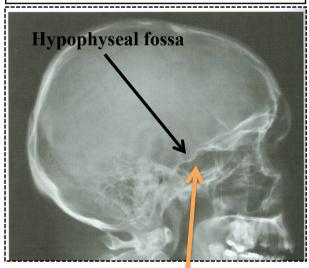
#### PITUITARY GLAND (HYPOPHYSIS CEREBRI)

#### **MRI**



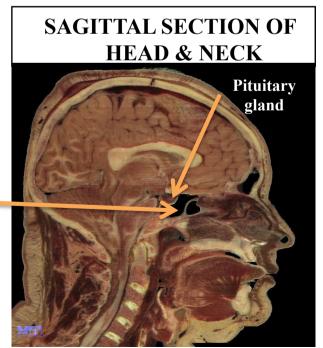
We highly recommend reading anatomy lectures of Pituitary and adrenal glands. Specially for relations, position and blood supply

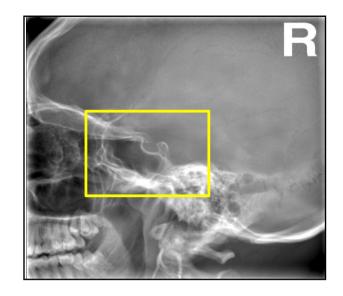
#### X-RAY SKULL\*: LATERAL VIEW

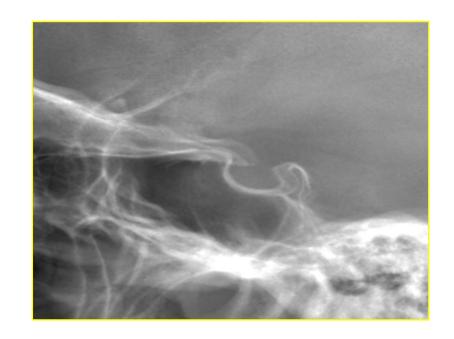


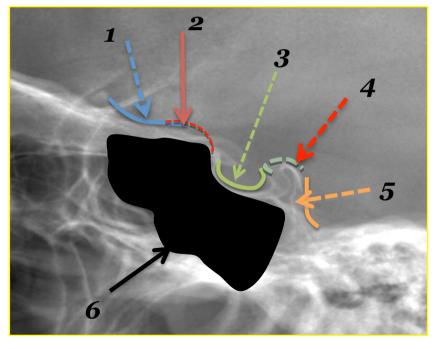
Sphenoidal air sinus

- □ Best diagnostic method of pituitary gland diseases is MRI
- □X-ray can't show Pituitary gland.
- □Ultrasound is not used here (used in GIT)



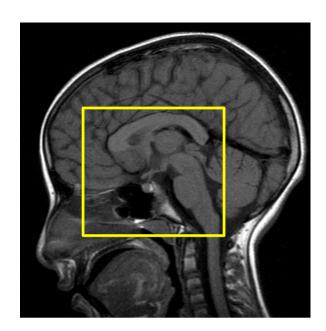






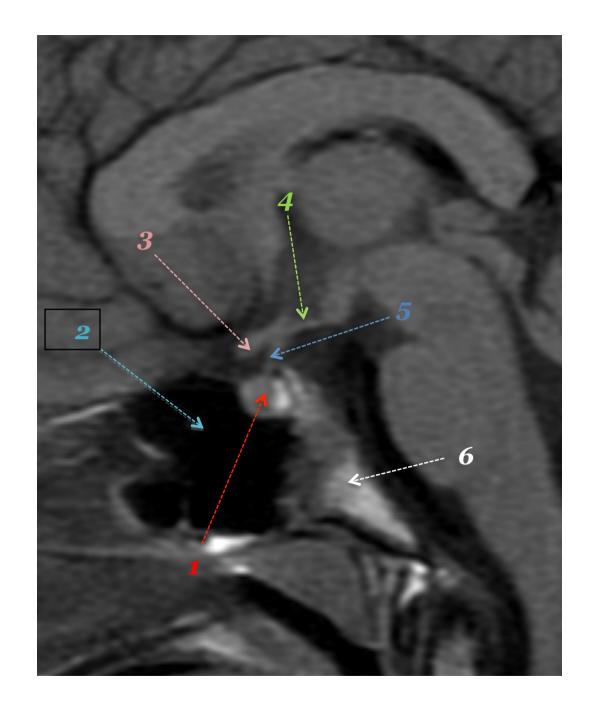
### X-RAY:

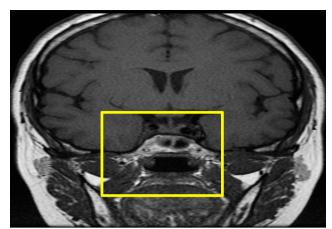
- 1-Optic sulcus
- 2- Anterior clinoid process
- 3-Floor of sella turcia (Pituitary fossa)
- **4- Posterior clinoid process**
- 5- Dorsum sella
- 6- Sphenoid sinus

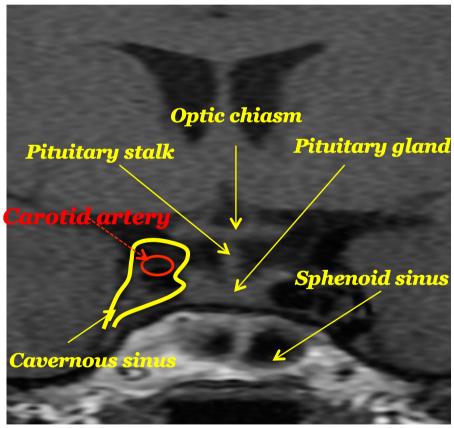


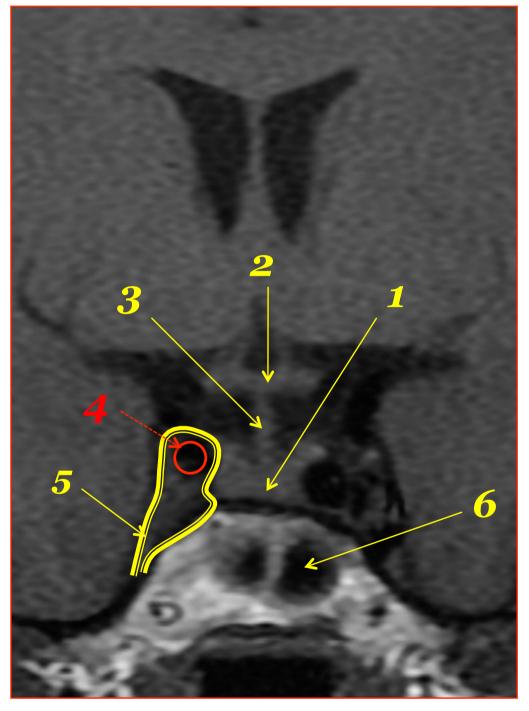
## **MRI**

- 1- pituitary gland
- 2- sphenoid sinus
- 3- optic chiasm
- 4- hypothalamus
- 5- pituitary stalk
- 6- claivus







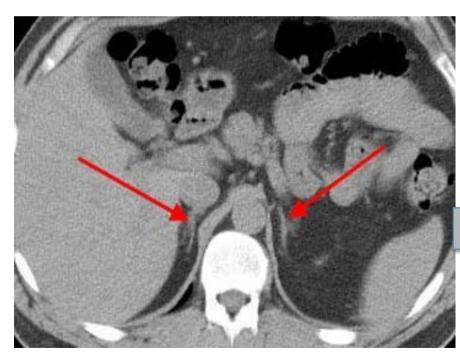


# You can differentiate between CT and MRI by the color of the bone (CT is white and MRI is Dark)

CT and MRI
Are the best for
Imaging the
adrenal glands

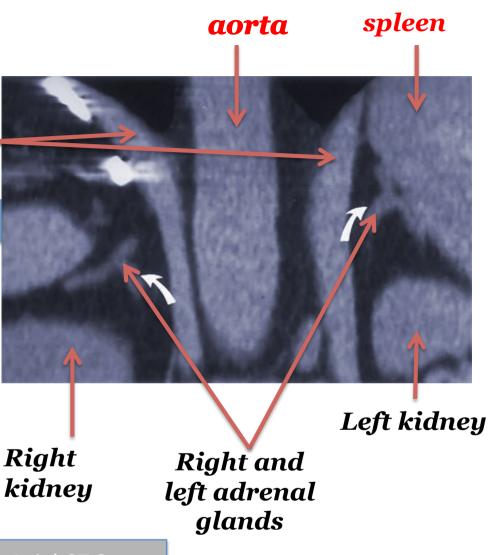
Right and left Diaphragmatic crus

Coronal CT Scan

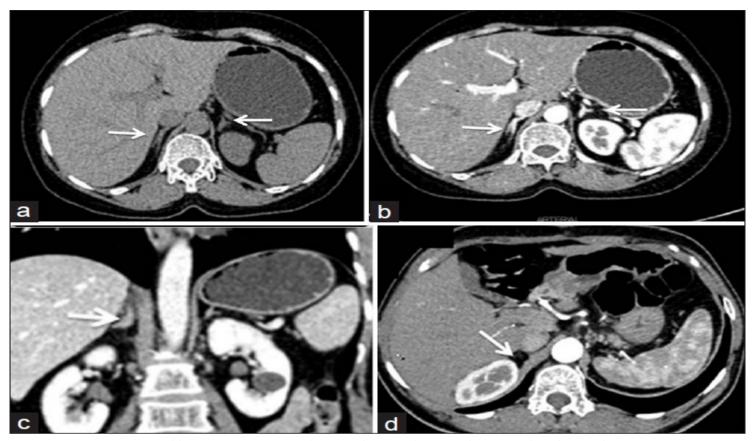


Right adrenal

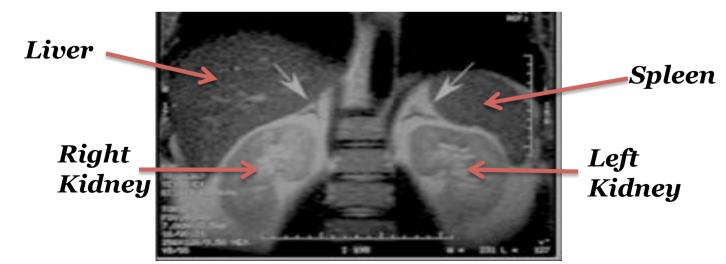
Left adrenal

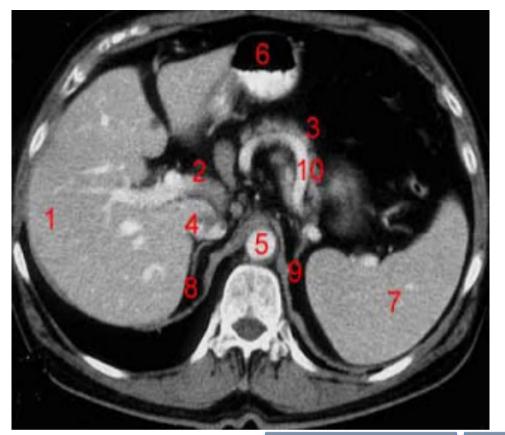


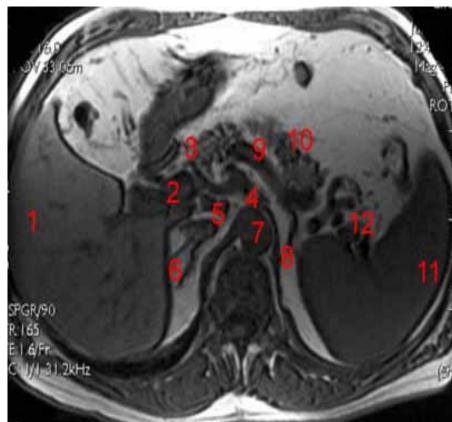
Axial CT Scan



All arrows pointed to the adrenal glands (Make sure in exam to right if it's right or left)







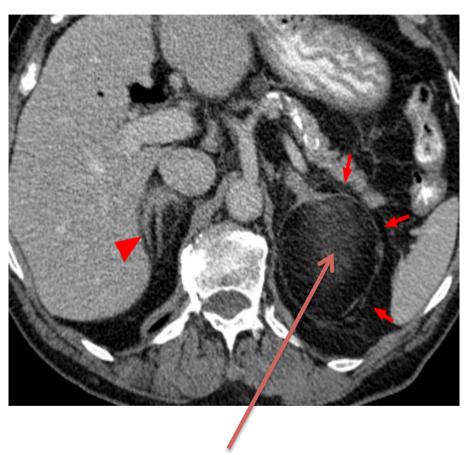
Axial CT of abdomin

Axial MRI of abdomin

- 1. Liver
- 2. Portal Vein
- 3. Pancreas
- 4. Inferior Vena Cava
- 5. Abdominal Aorta
- 6. Stomach
- 7. Spleen
- 8. Right Adrenal
- 9. Left Adrenal
- 10.Splenic artery

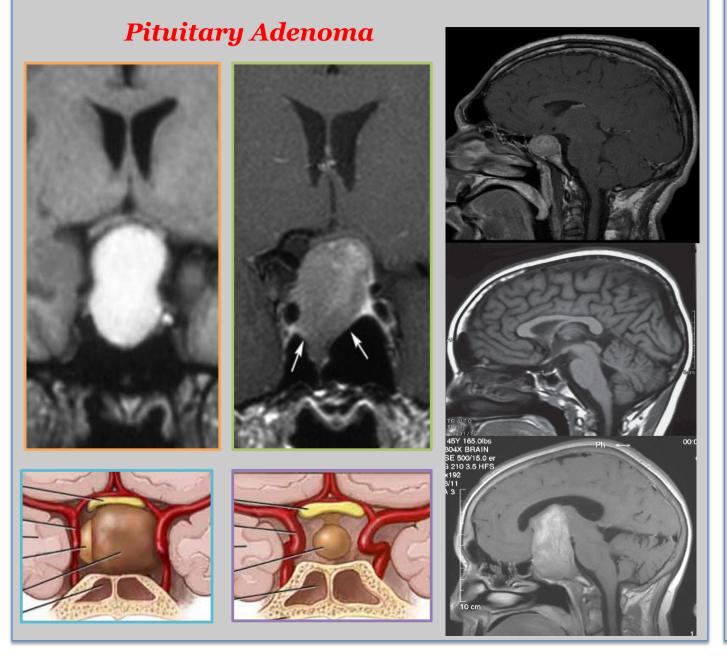
- # In this picture you just have to know the following:
- 1- Liver
- 5- Inferior Vena Cava
- 6- Right Adrenal
- 7- Abdominal Aorta
- 8- Left Adrenal
- 11-Spleen

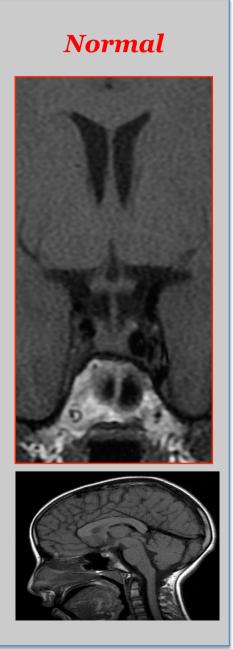
## Pathology of the adrenal gland



Lipoma of the adrenal gland

## Pathology of the pituitary gland





# What is best modality to image the pituitary gland?

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

## **Best Wishes**

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