



Practical Endocrine Radiology



RADIOLOGY
TEAM 435

We highly recommend studying anatomy first 😊

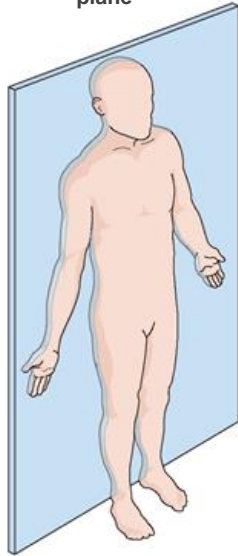
- You'll be asked to identify **normal anatomy** on different views of the pituitary and the adrenals.
- You'll get **2-3** questions.
- **Most likely you'll get a CT or a MRI image.**

Team members :
Monirah Alsalouli and Abdullah Aljunaydil

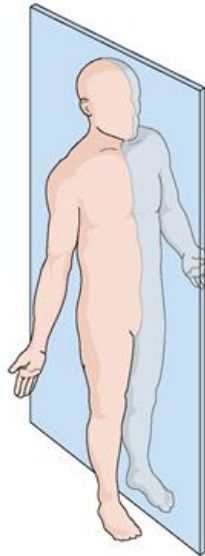
EXTRA

The doctor mentioned that its important to know the planes and they may ask about it on the exam!

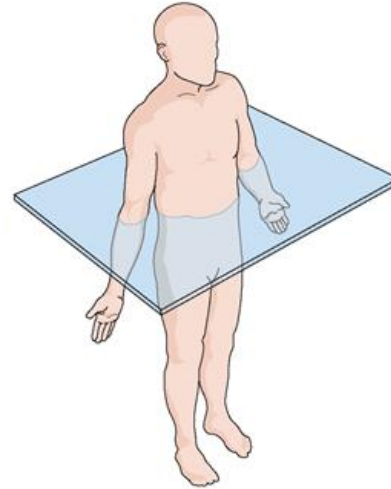
Frontal
(coronal)
plane



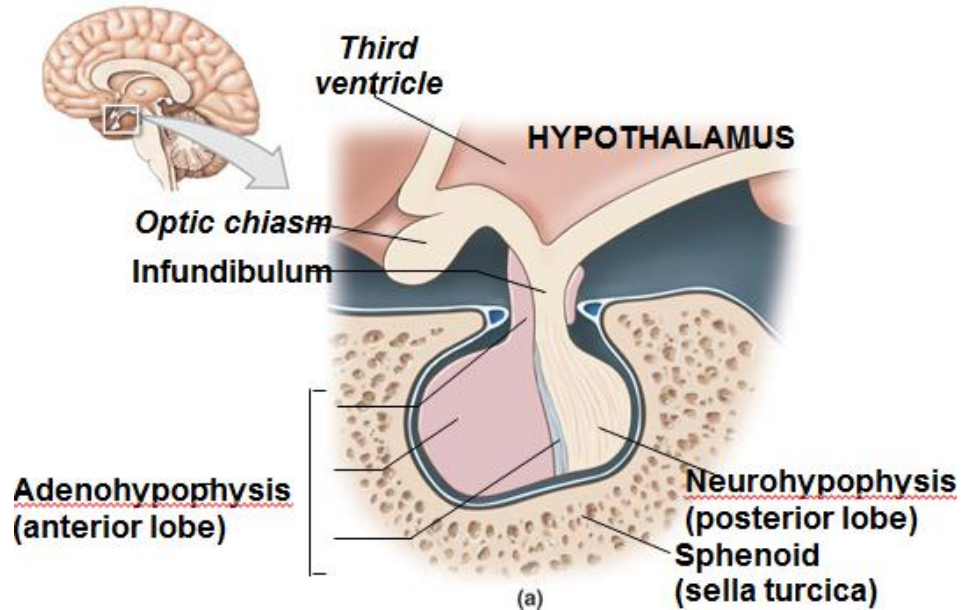
Sagittal
plane



Transverse
(Axial)
plane

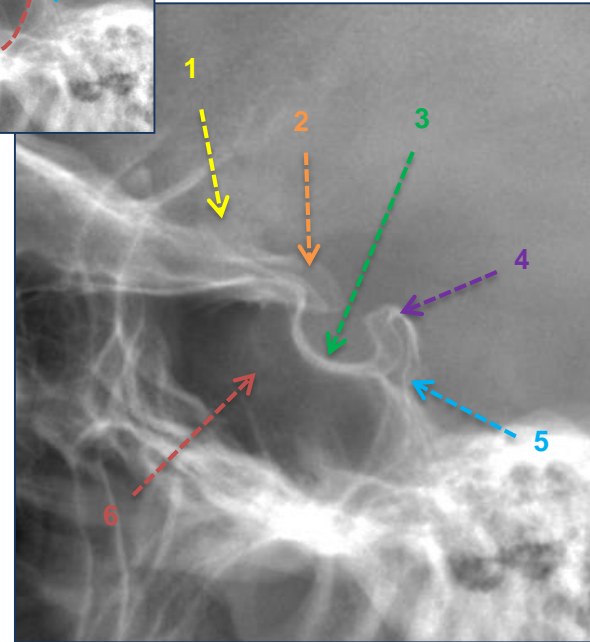
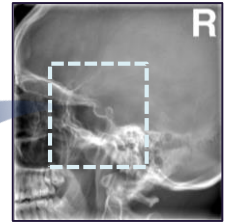
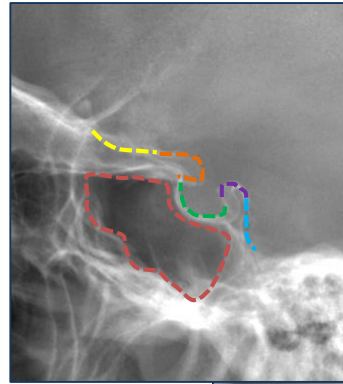


Pituitary Gland



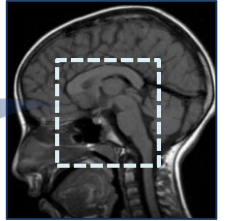
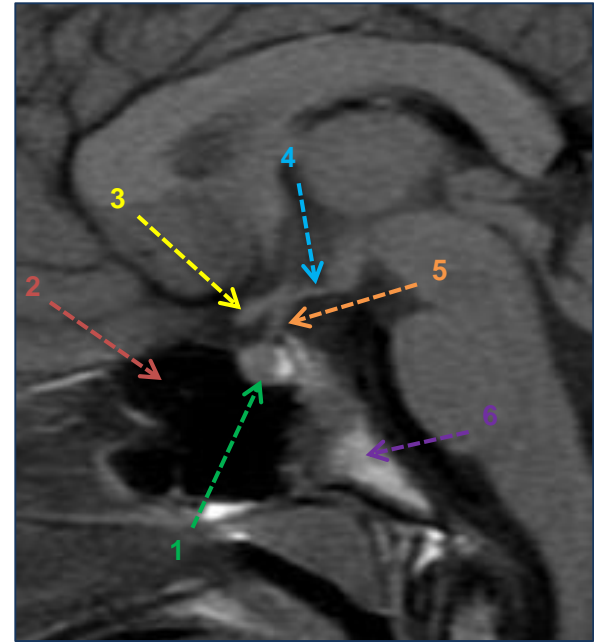
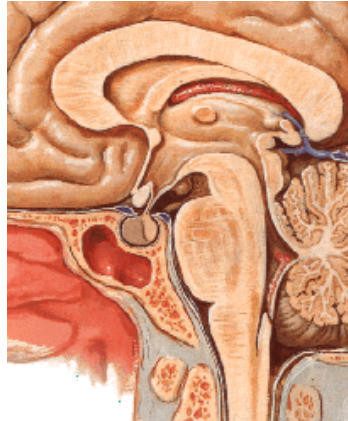
X-ray

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



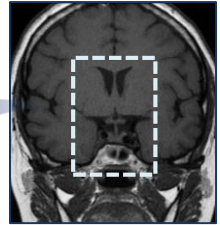
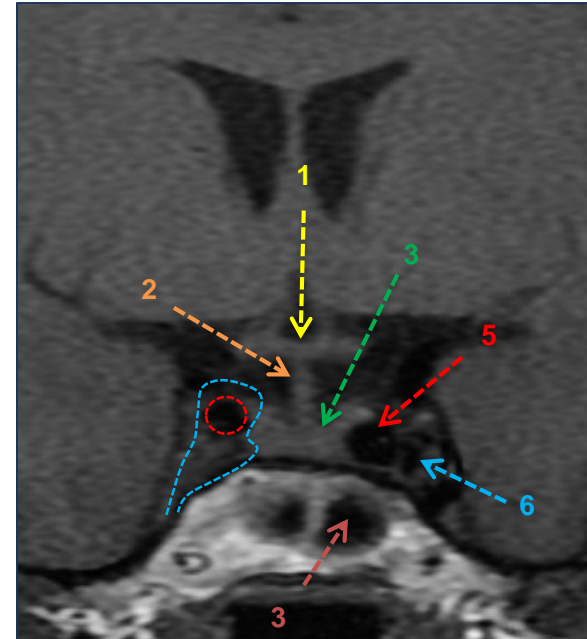
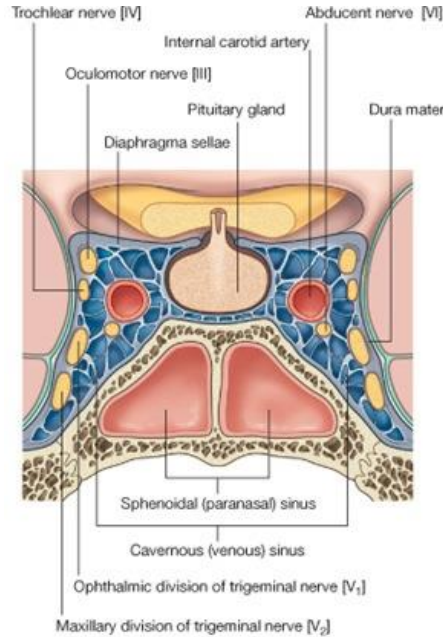
MRI Sagittal view

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

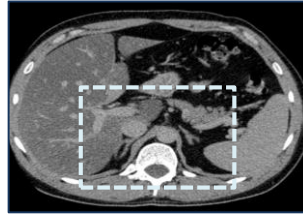
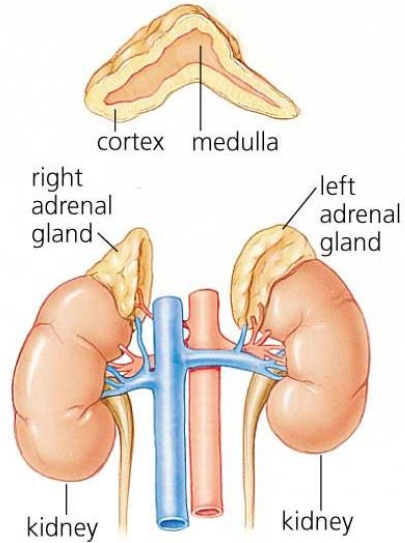


MRI Coronal view

1. Optic chiasm
2. Pituitary stalk
3. Pituitary gland
4. Sphenoid sinus
5. Carotid artery
6. Cavernous sinus



Adrenal Gland



- Right adrenal gland is **pyramidal** in shape.
- Left adrenal gland is **crescentic** in shape.

- The adrenal glands look like a **^** on images.



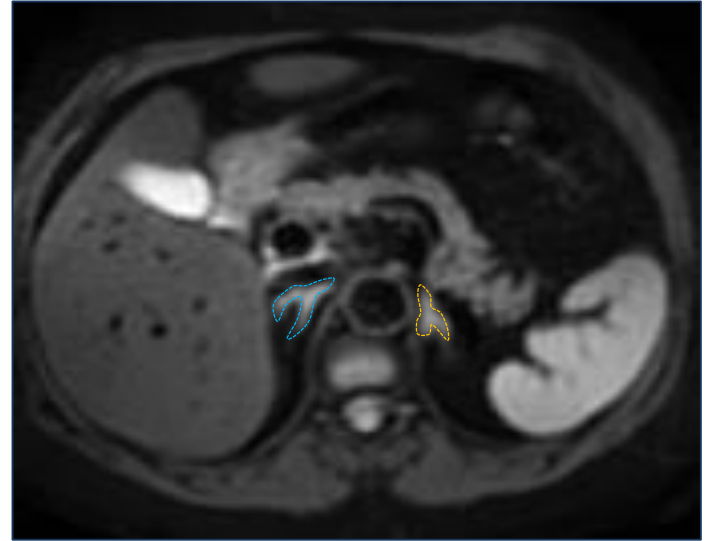
MRI coronal view



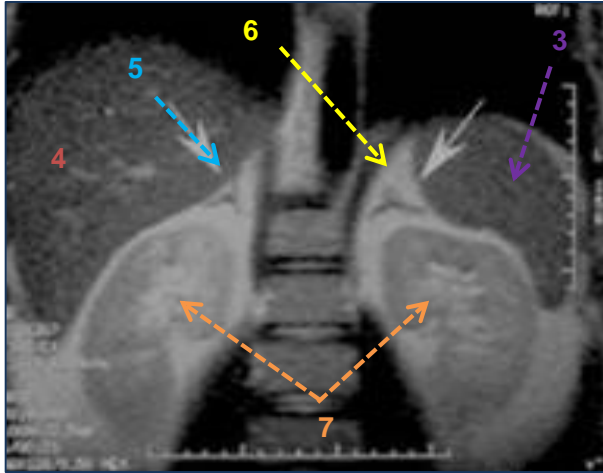
Right adrenal gland

Left adrenal gland

MRI axial view



MRI Coronal view



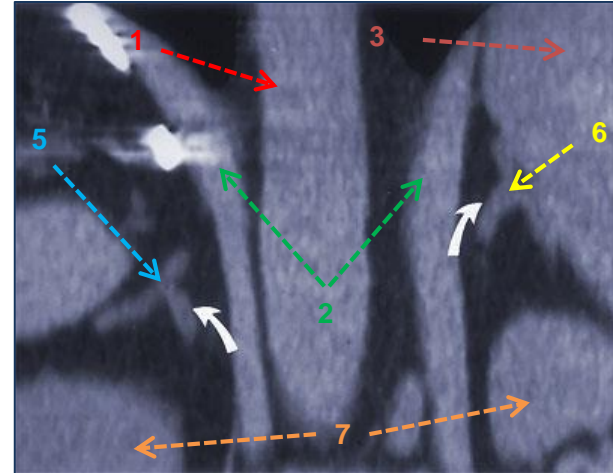
1. Aorta

2. R & L Diaphragmatic crus

3. Spleen

4. Liver

CT Coronal view



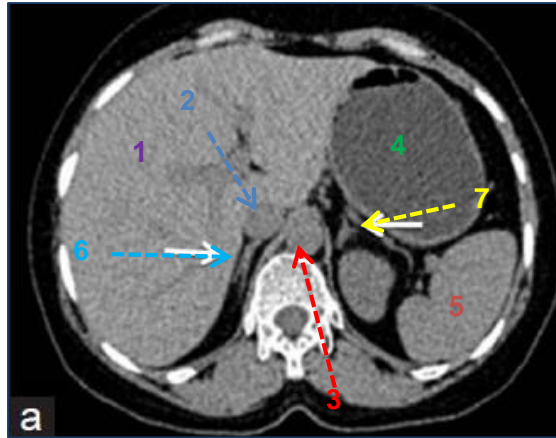
5. Right adrenal gland

6. Left adrenal gland

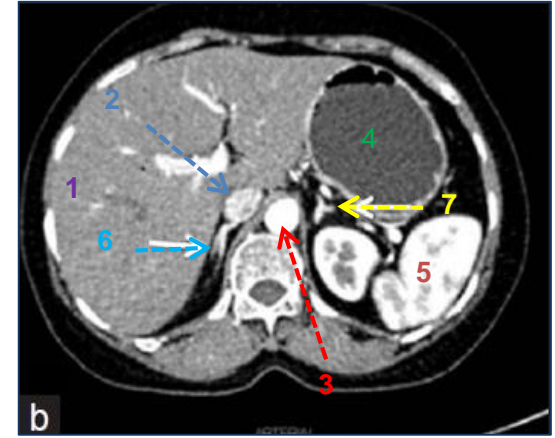
7. R & L kidney

Abdomen CT

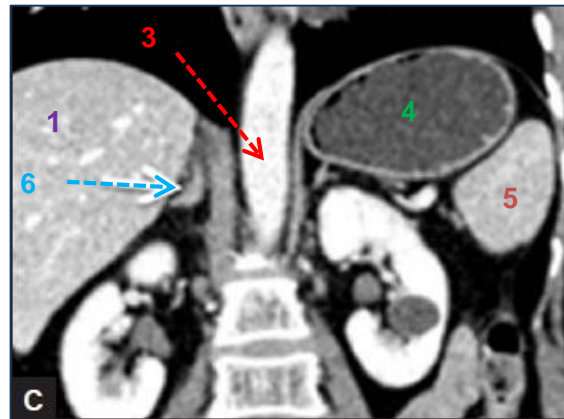
1. Liver
2. Inferior vena cava
3. Abdominal aorta
4. Stomach
5. Spleen
6. Right adrenal
7. Left adrenal



axial view



axial view (With contrast)



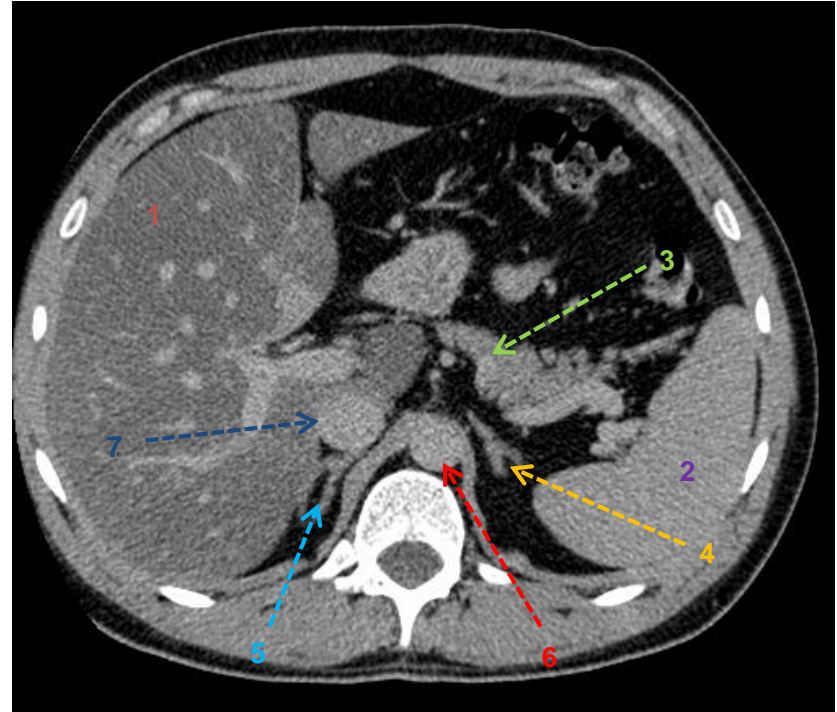
Coronal view (With contrast)



axial view (With contrast)

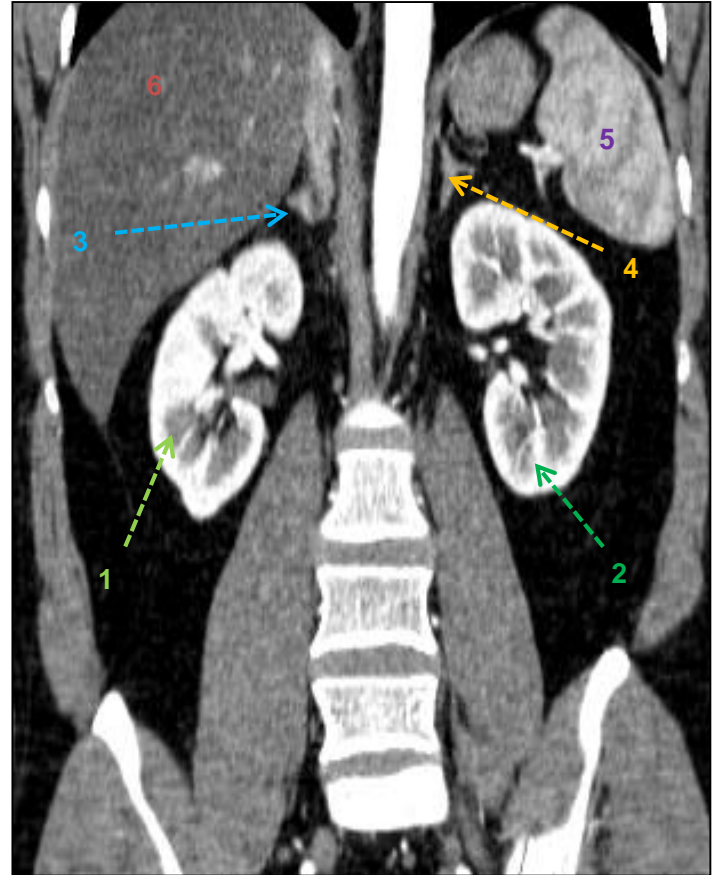
CT Axial view

1. Liver
2. Spleen
3. Pancreas
4. Left adrenal gland
5. Right adrenal gland
6. Aorta
7. IVC



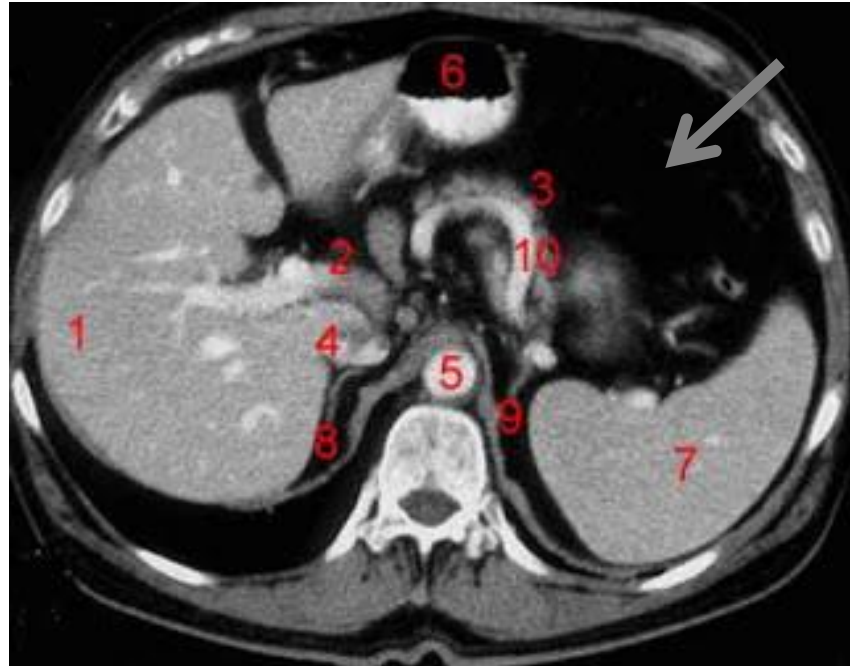
CT Axial view

1. Right kidney
2. Left kidney
3. Right adrenal gland
4. Left adrenal gland
5. spleen
6. Liver



CT Axial view

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



The dark space is the omental fat.

* Remember fat and air appear black on CT

MRI Axial view

1. Liver
2. Portal vein.
3. Head of pancreas
4. Celiac artery
5. Inferior vena cava
6. Right adrenal
7. Abdominal aorta
8. Left adrenal
9. Splenic artery
10. Body of pancreas
11. Spleen

