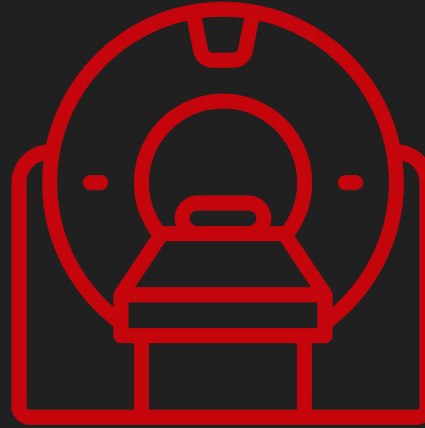


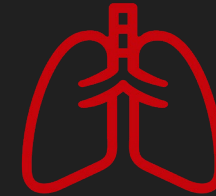


Department of Radiology
UNIVERSITY OF WISCONSIN
SCHOOL OF MEDICINE AND PUBLIC HEALTH



Anatomy Crash Course

A CT Primer for Non-Radiologists



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Assistant Professor – Radiology and Medical Physics

Abdominal Imaging and Intervention

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Disclosures

- Consultant, Canon Medical Systems



Objectives

- Learn major structures and anatomic landmarks of the brain
- Learn major structures and anatomic landmarks of the chest
- Learn major structures and anatomic landmarks of the abdomen and pelvis
- In parallel, contextualize clinical anatomy in approaches to radiology research

Orientation



Anatomy and Radiology resources

For practitioners, students and educators

[FIND YOUR SOLUTION](#)


e-Anatomy

Human anatomy atlas

[Discover e-Anatomy →](#)


e-MRI

Interactive course on MRI

[Discover e-MRI →](#)


vet-Anatomy

Veterinary anatomy atlas

[Discover vet-Anatomy →](#)


QEVLR RadCore

App for Core exam prep

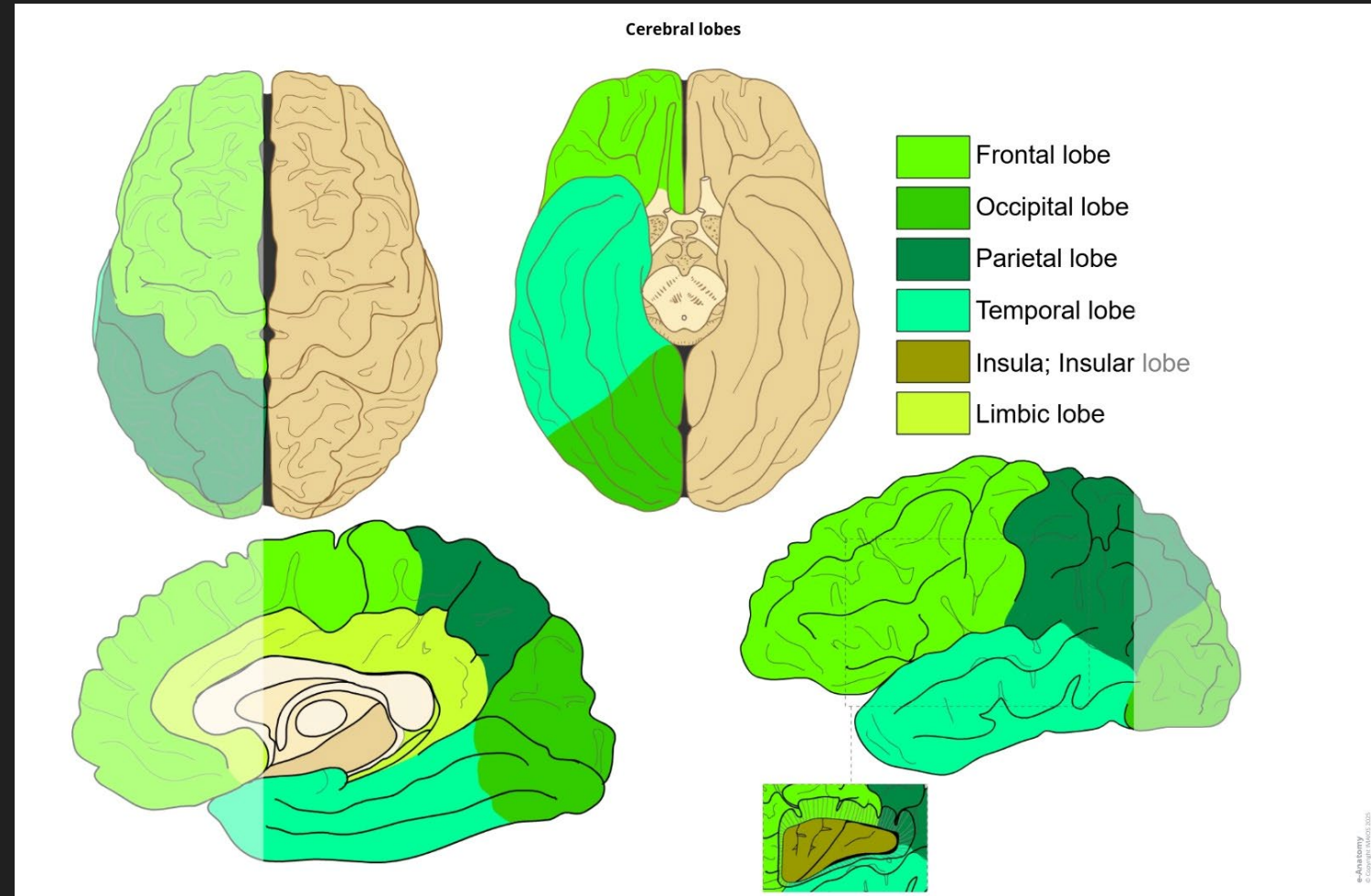
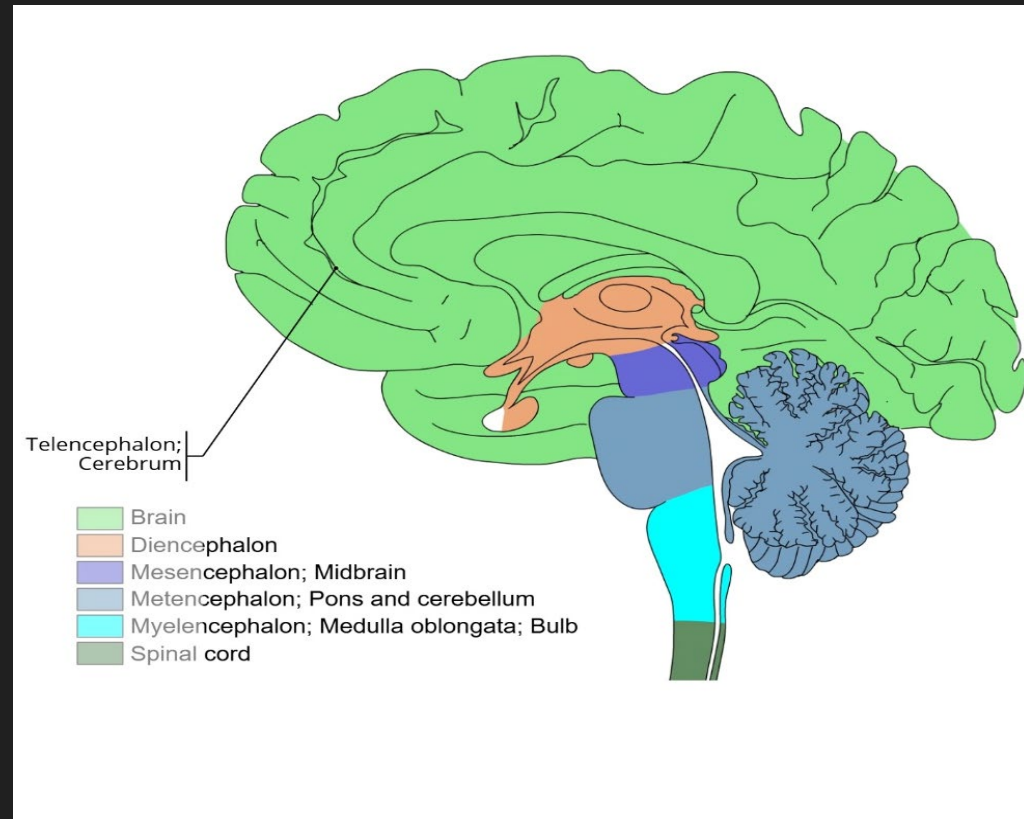
[Discover QEVLR RadCore →](#)



Brain



Regions and Lobes



SAGITTAL

Brain - CT (Axial)

Cerebral Lobes and Brainstem



CORONAL

3D

Frontal lobe

Parietal lobe

Cerebral hemisphere

SAGITTAL

Brain - CT (Axial)

Cerebral Lobes and Brainstem



CORONAL

3D

Frontal lobe

Basal nuclei and
related structures

Insula; Insular lobe

Diencephalon

Parietal lobe

Occipital lobe

Cerebral
hemisphere

SAGITTAL

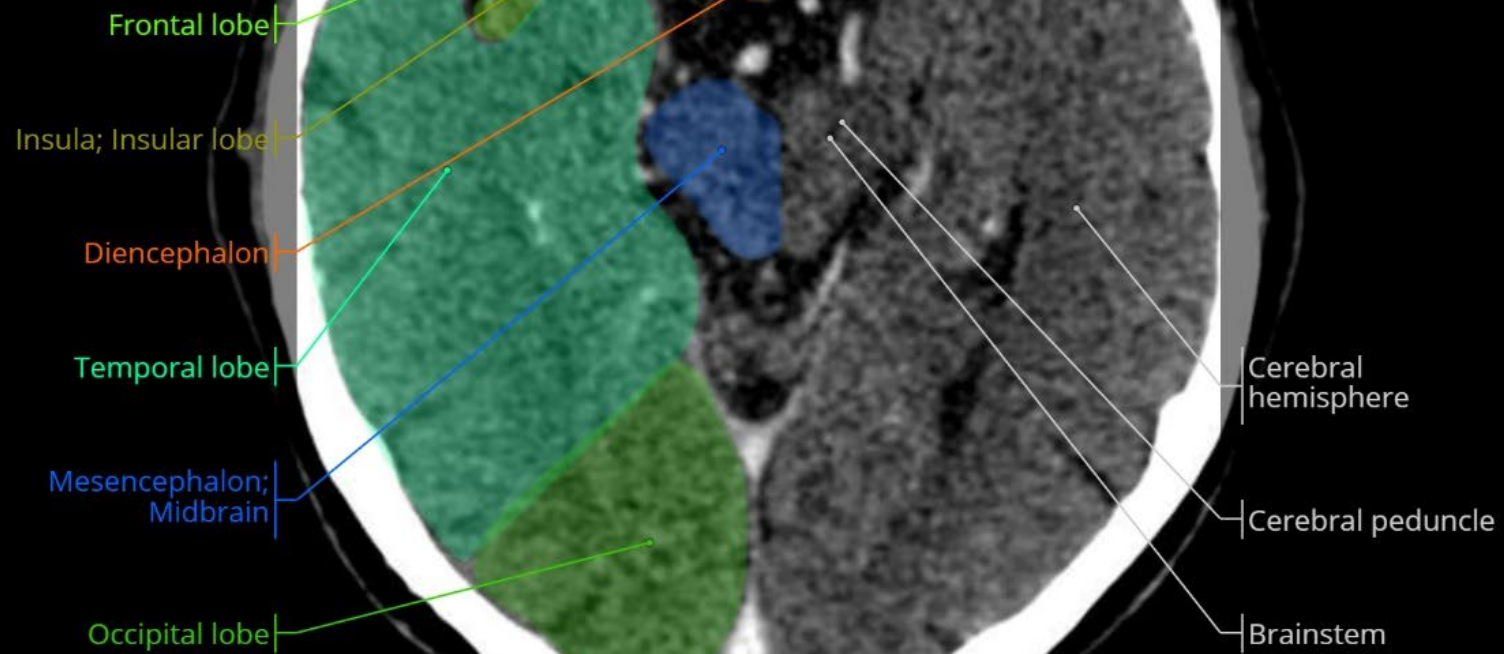
Brain - CT (Axial)

Cerebral Lobes and Brainstem

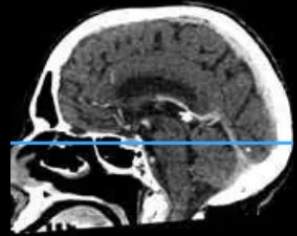


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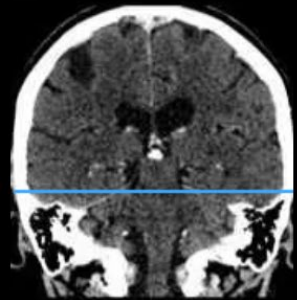
3D



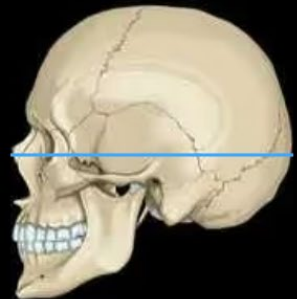
SAGITTAL



CORONAL



3D



Brain - CT (Axial)

Cerebral Lobes and Brainstem



Temporal lobe

Diencephalon

Pons

Cerebellum

Occipital lobe

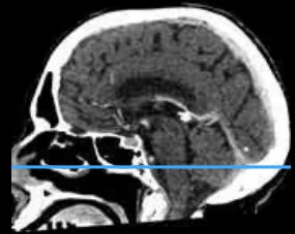
Pituitary gland

Brainstem

Hemisphere of cerebellum

Cerebral hemisphere

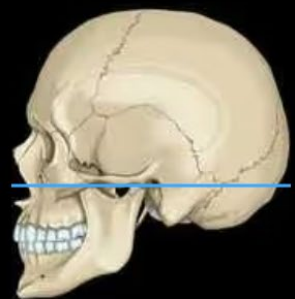
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CORONAL

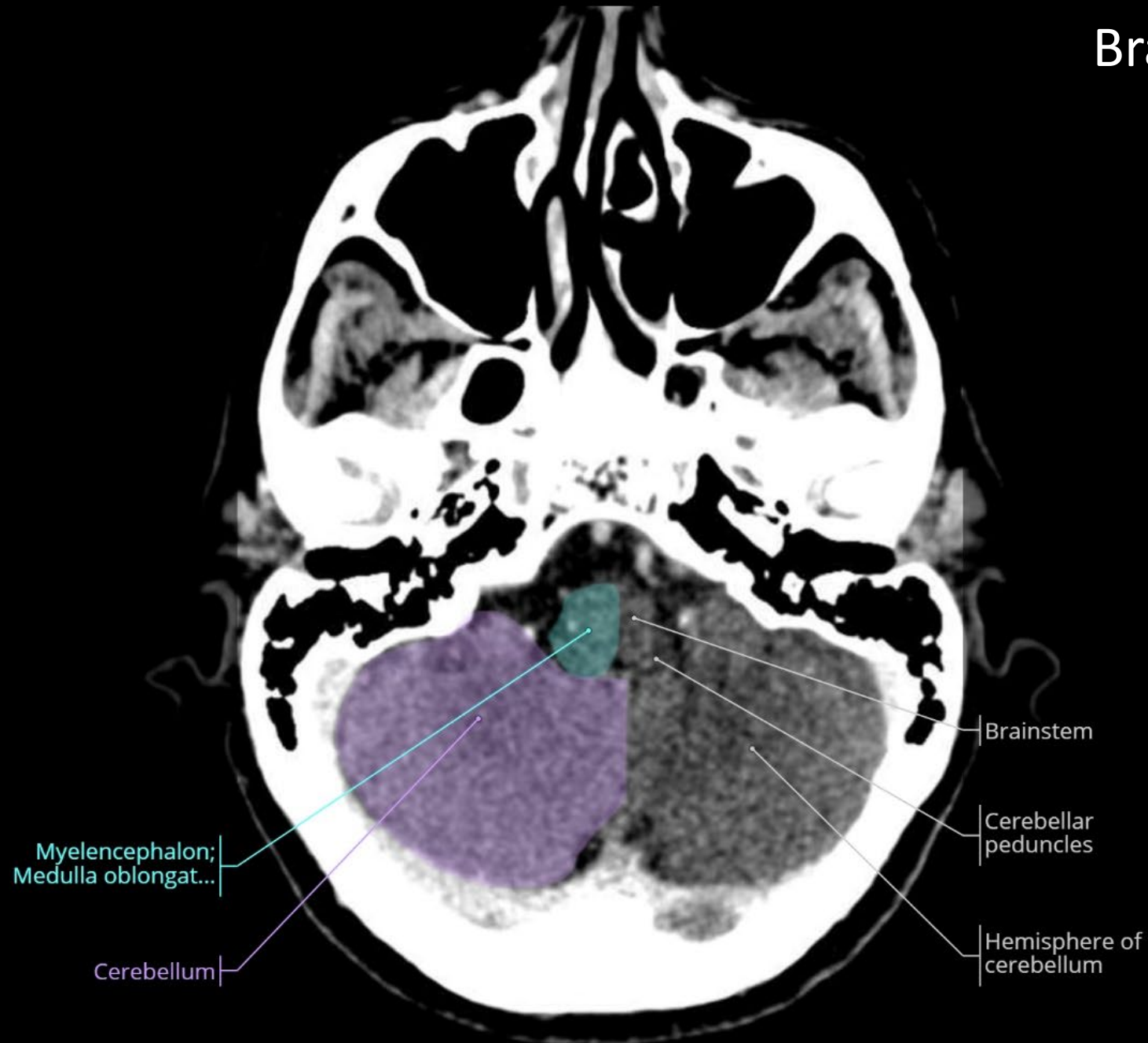


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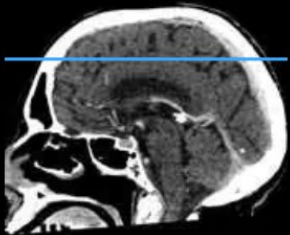


Brain - CT (Axial)

Cerebral Lobes and Brainstem



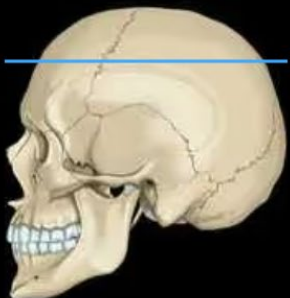
SAGITTAL



CORONAL

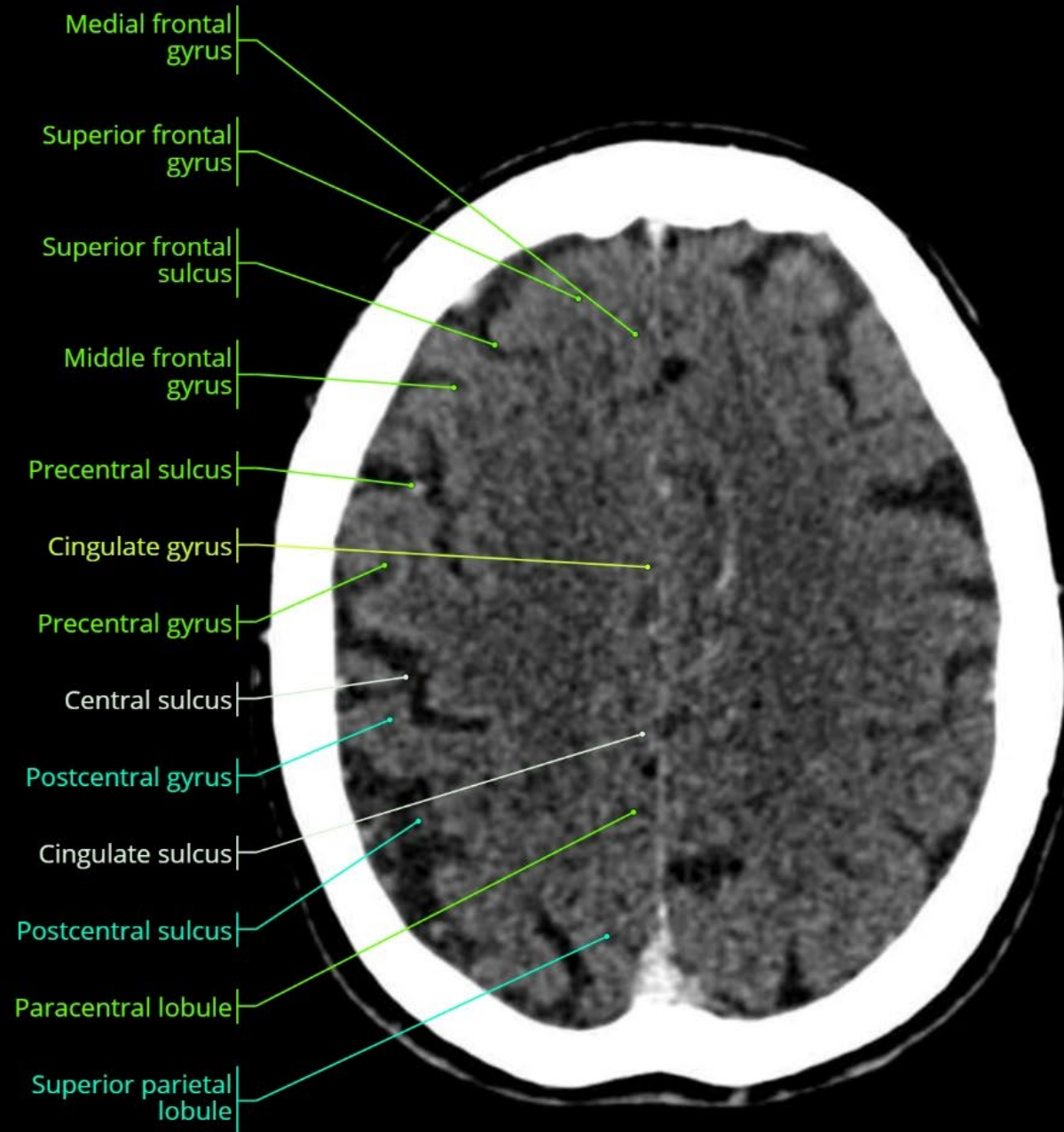


3D



Brain - CT (Axial)

Cerebral Gyri and Sulci



SAGITTAL

Brain - CT (Axial)

Cerebral Gyri and Sulci

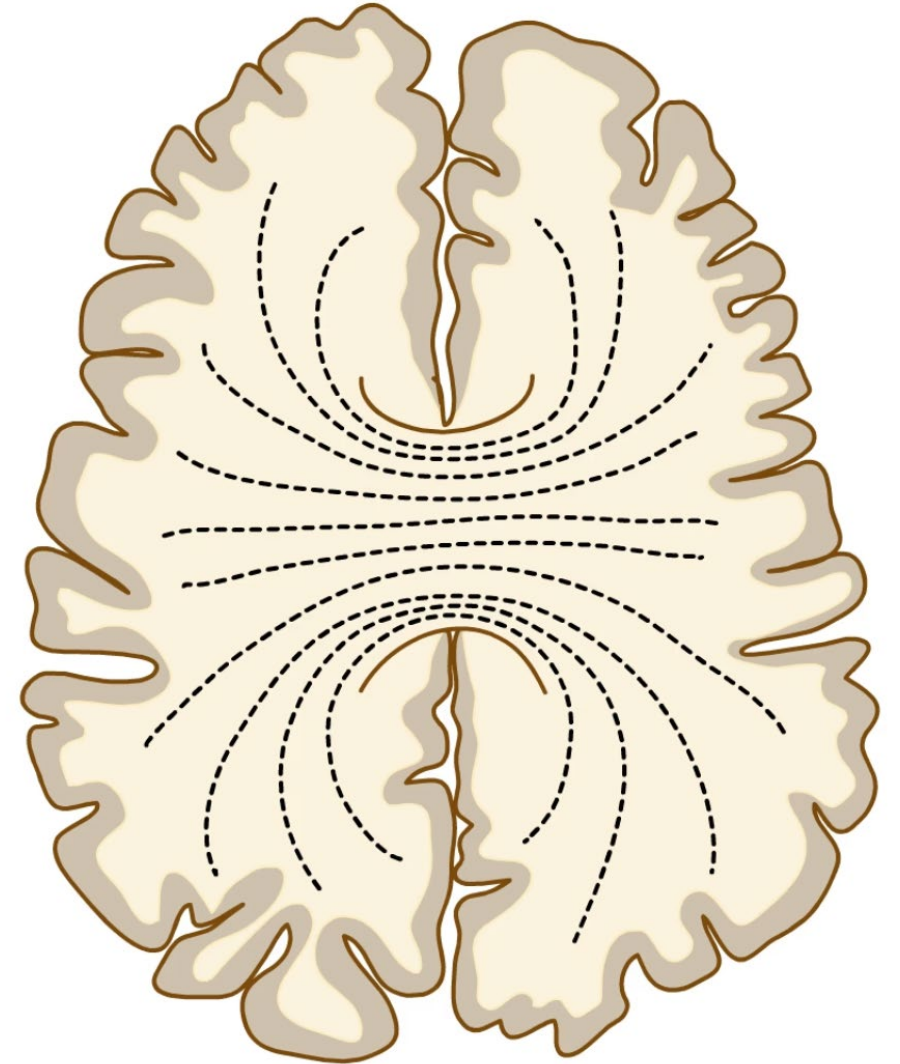
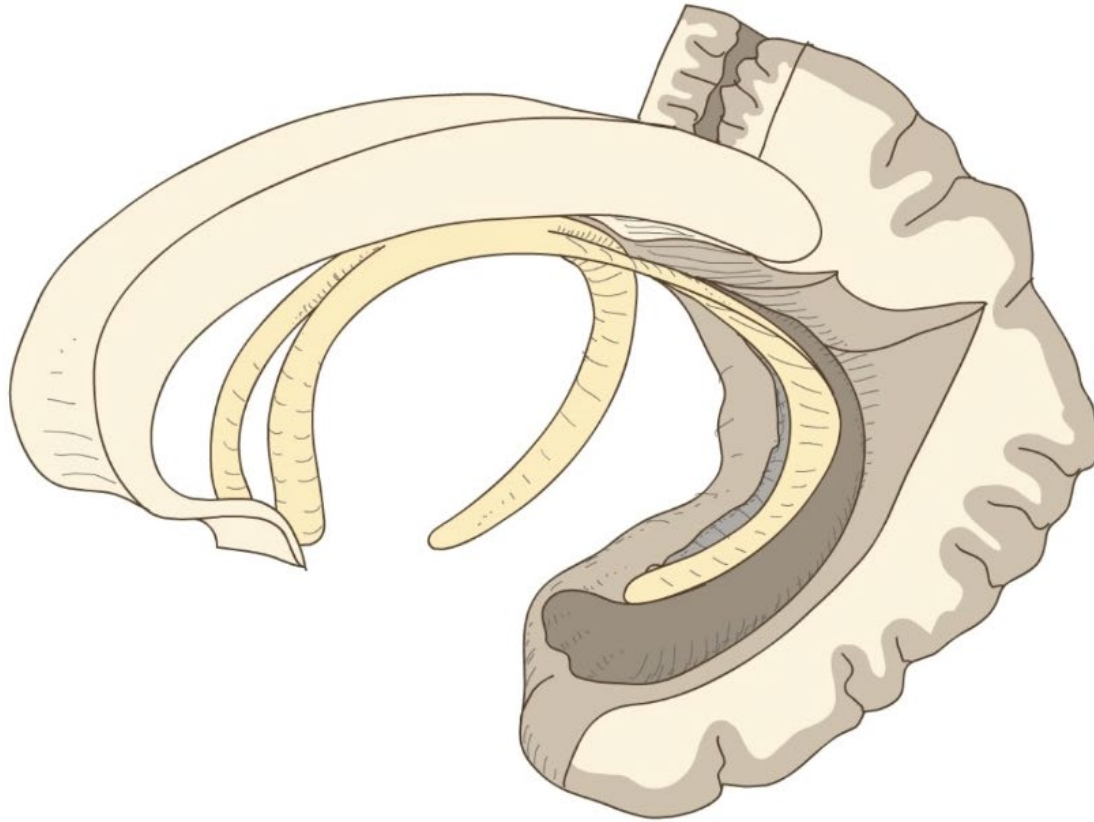


CORONAL

3D

Sagittal gyrus
Paraolfactory area
Orbital gyri
Olfactory sulcus
Orbital sulci
Inferior frontal gyrus
Lateral sulcus
Superior temporal gyrus
Superior temporal sulcus
Middle temporal gyrus
Inferior temporal sulcus
Circular sulcus of insula
Inferior temporal gyrus
Hippocampus
Hippocampal sulcus
Calcarine sulcus
Cuneus
Transverse occipital sulcus

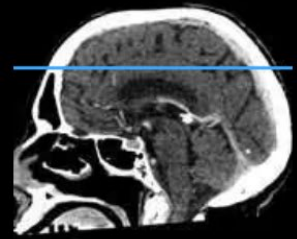
Corpus Callosum



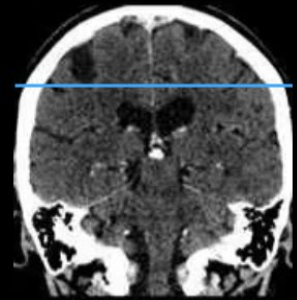
SAGITTAL

Brain - CT (Axial)

Corpus Callosum White Matter



CORONAL



3D



Radiation of corpus
callosum

SAGITTAL

Brain - CT (Axial)

Corpus Callosum White Matter



CORONAL

3D



Genu of corpus callosum

Septum pellucidum

Radiation of corpus callosum

Trunk of corpus callosum

SAGITTAL

Brain - CT (Axial)

Corpus Callosum White Matter



CORONAL

3D

Radiation of corpus callosum

Splenium of corpus callosum

Rostrum of corpus callosum

Fornix

SAGITTAL

Brain - CT (Axial)

Corpus Callosum White Matter



CORONAL

3D

Radiation of corpus
callosum

SAGITTAL

Brain - CT (Axial)

Cerebellum



CORONAL

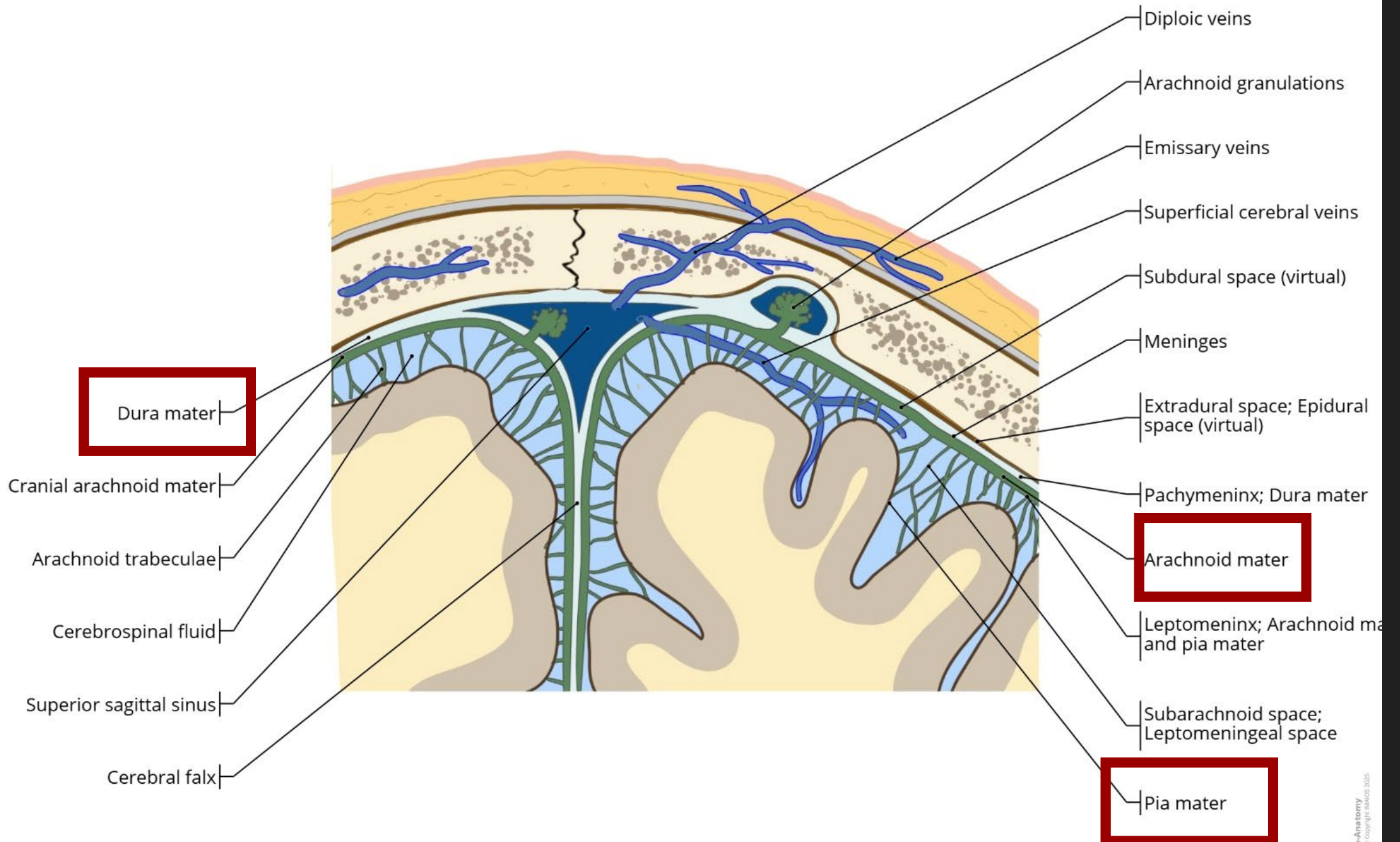
3D

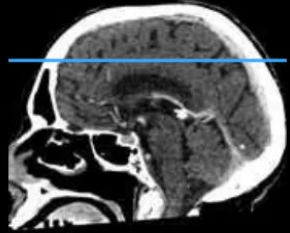
Flocculus [H X]

Posterior lobe of cerebellum

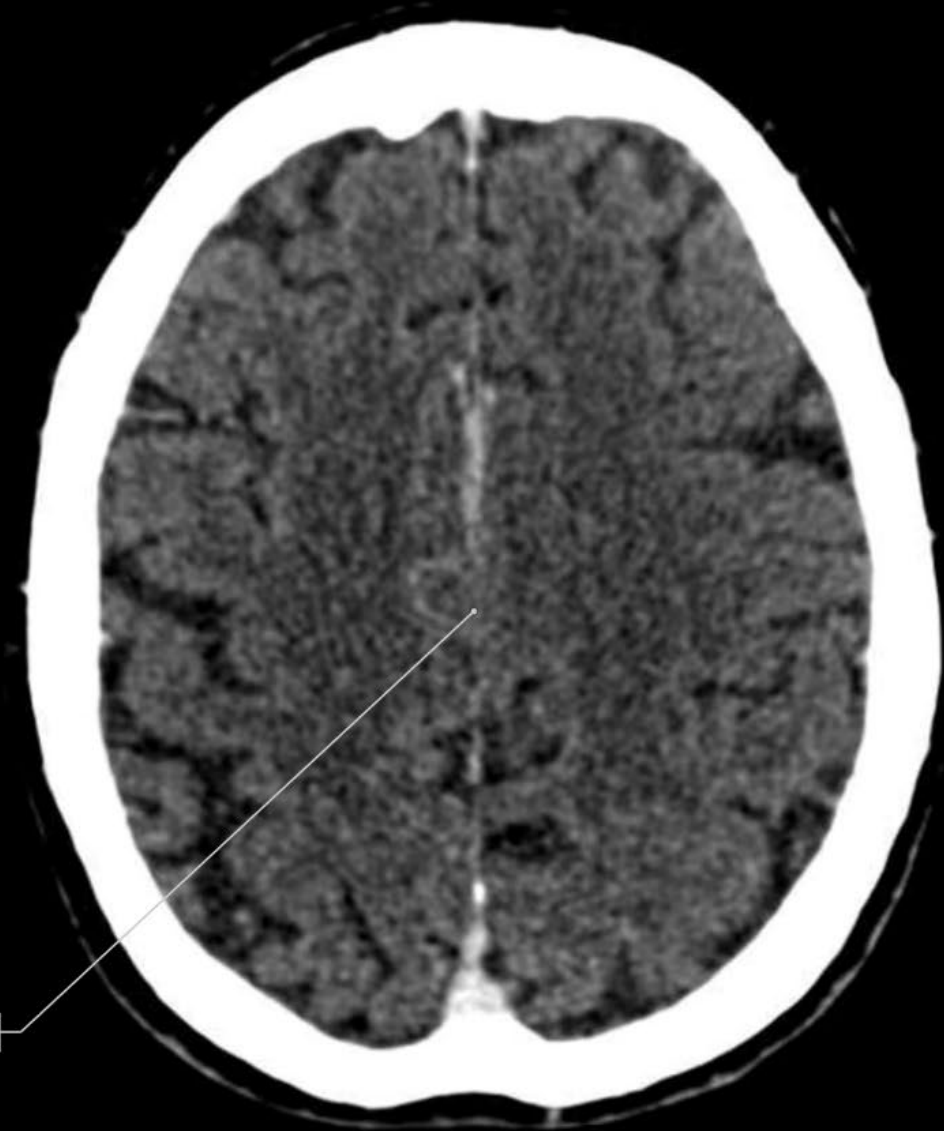
Vermis of cerebellum

Meninges (Coronal cross section)





Cerebral falx





Choroid plexus of
lateral ventricle

Cerebral falx

Choroid plexus of
third ventricle

SAGITTAL

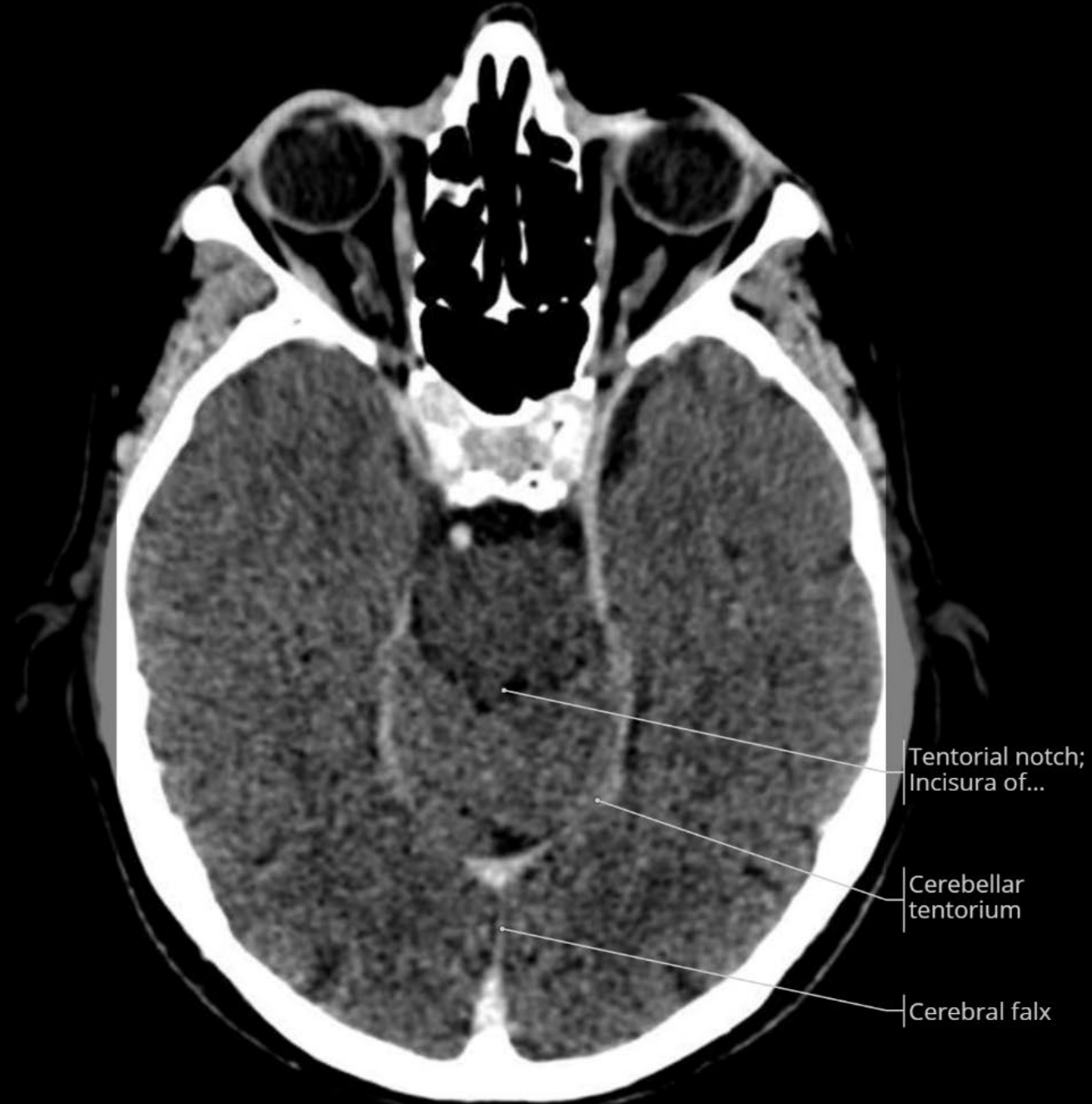
Brain - CT (Axial)

Meninges

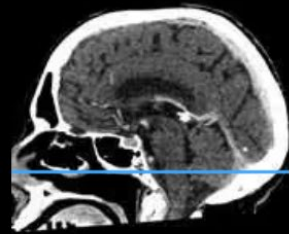


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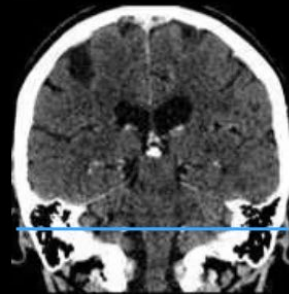
3D



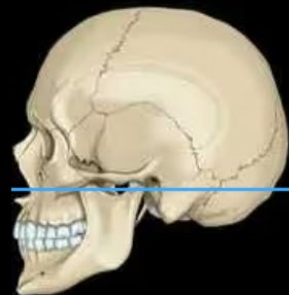
SAGITTAL



CORONAL



3D



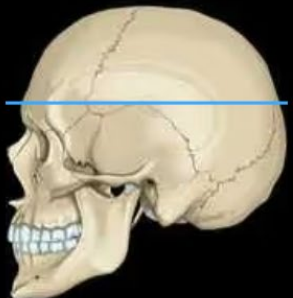
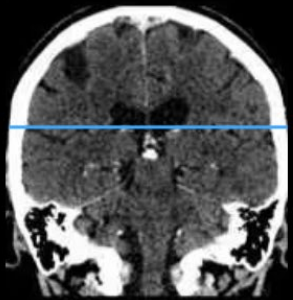
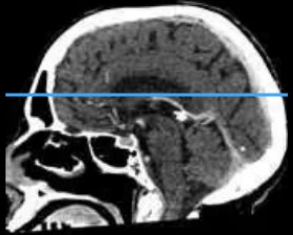
Brain - CT (Axial)



Falx cerebelli;
Cerebellar falx

Meninges





Ventricles of the brain

Lateral ventricle

Frontal horn of lateral
ventricle; Anterior horn of...

Choroidal fissure

Atrium



Ventricles of the brain

Lateral ventricle

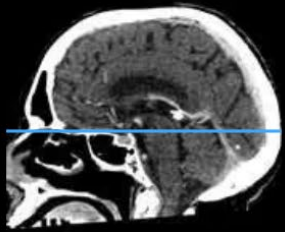
Frontal horn of lateral ventricle;...

Third ventricle

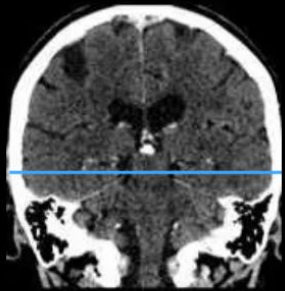
Choroidal fissure

Atrium

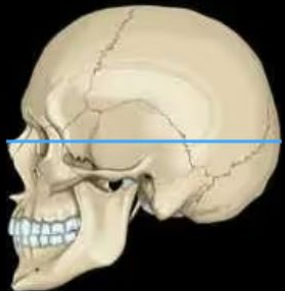
SAGITTAL



CORONAL



3D



Brain - CT (Axial)

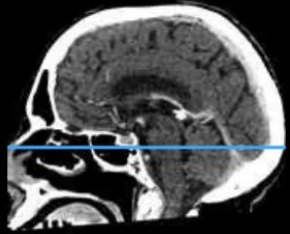
Ventricles



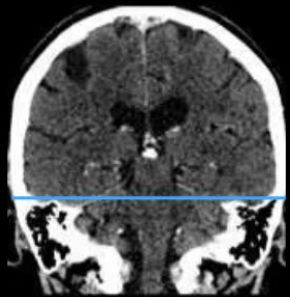
SAGITTAL

Brain - CT (Axial)

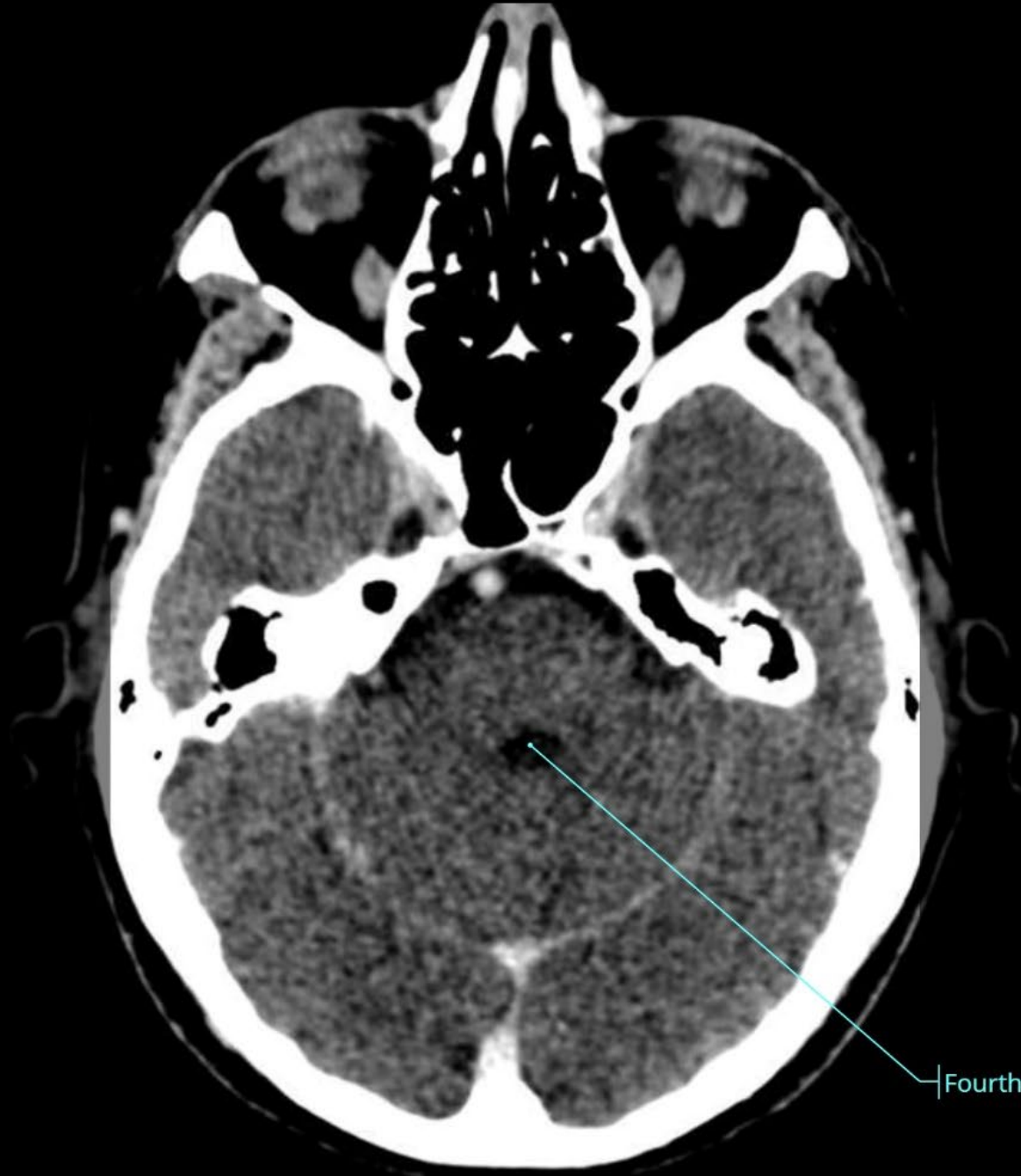
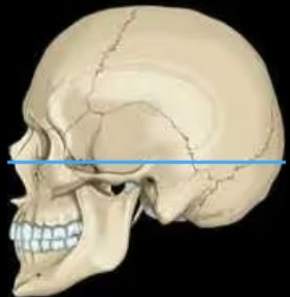
Ventricles



CORONAL



3D



Fourth ventricle

SAGITTAL

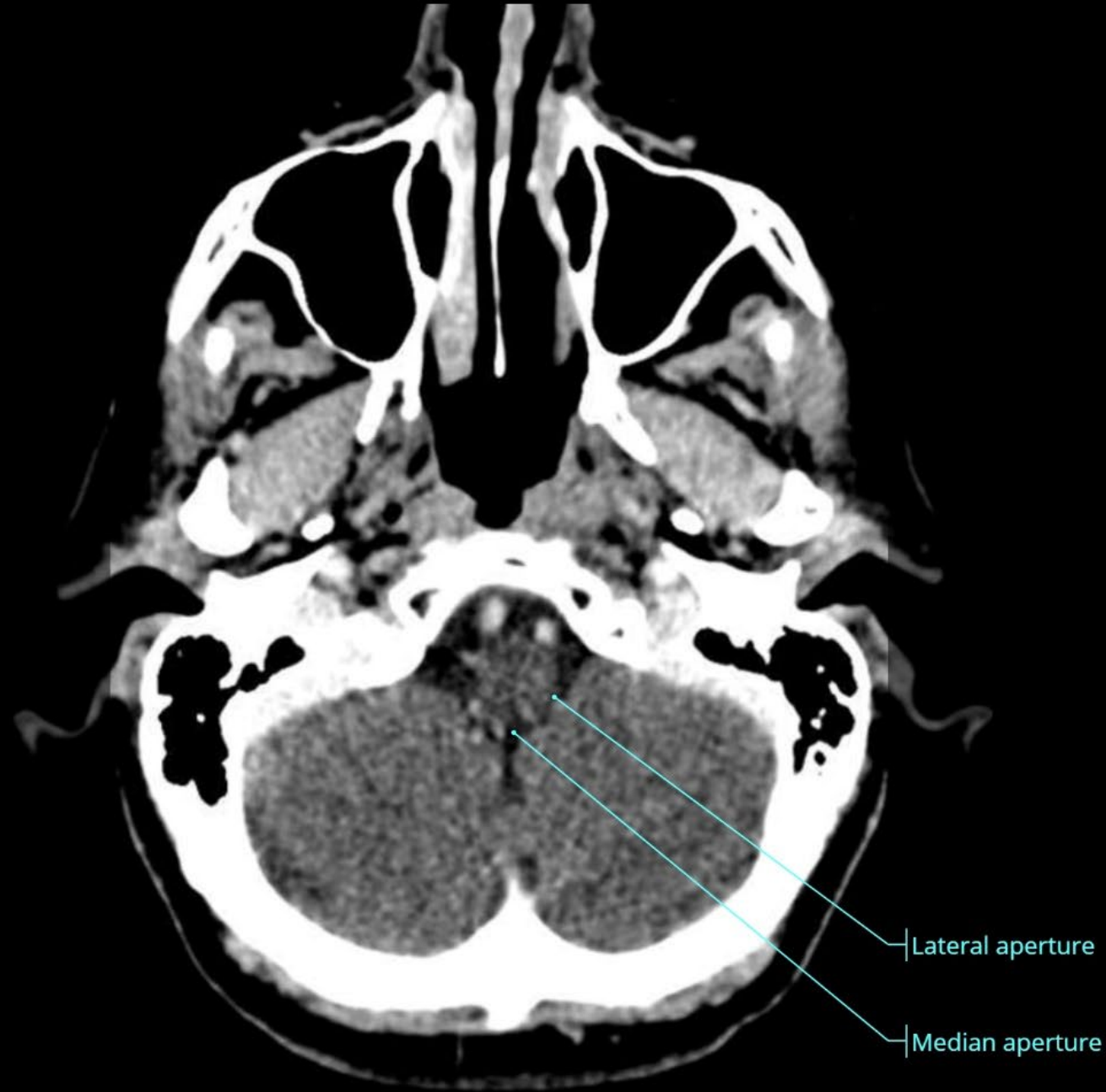
Brain - CT (Axial)

Ventricles

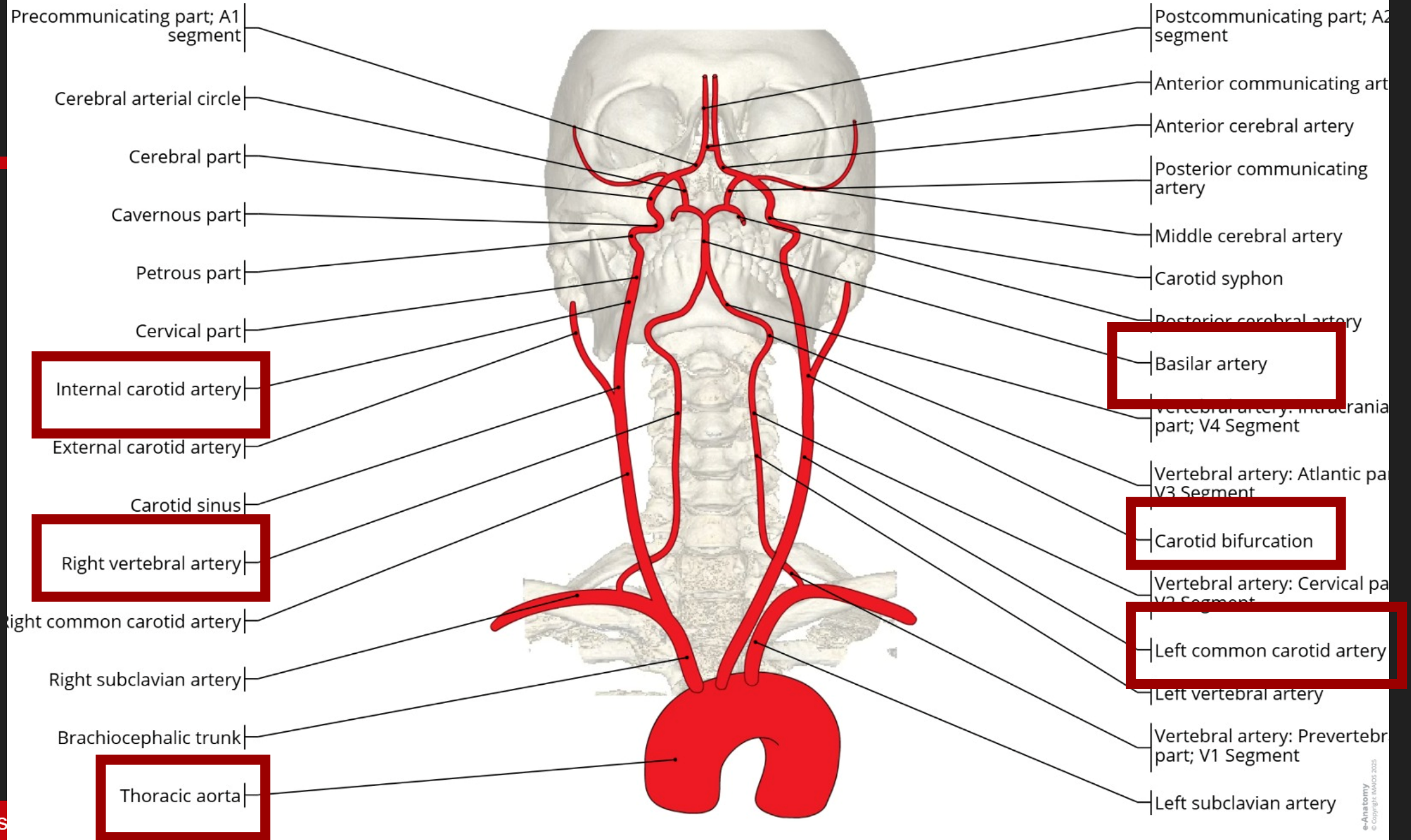


CORONAL

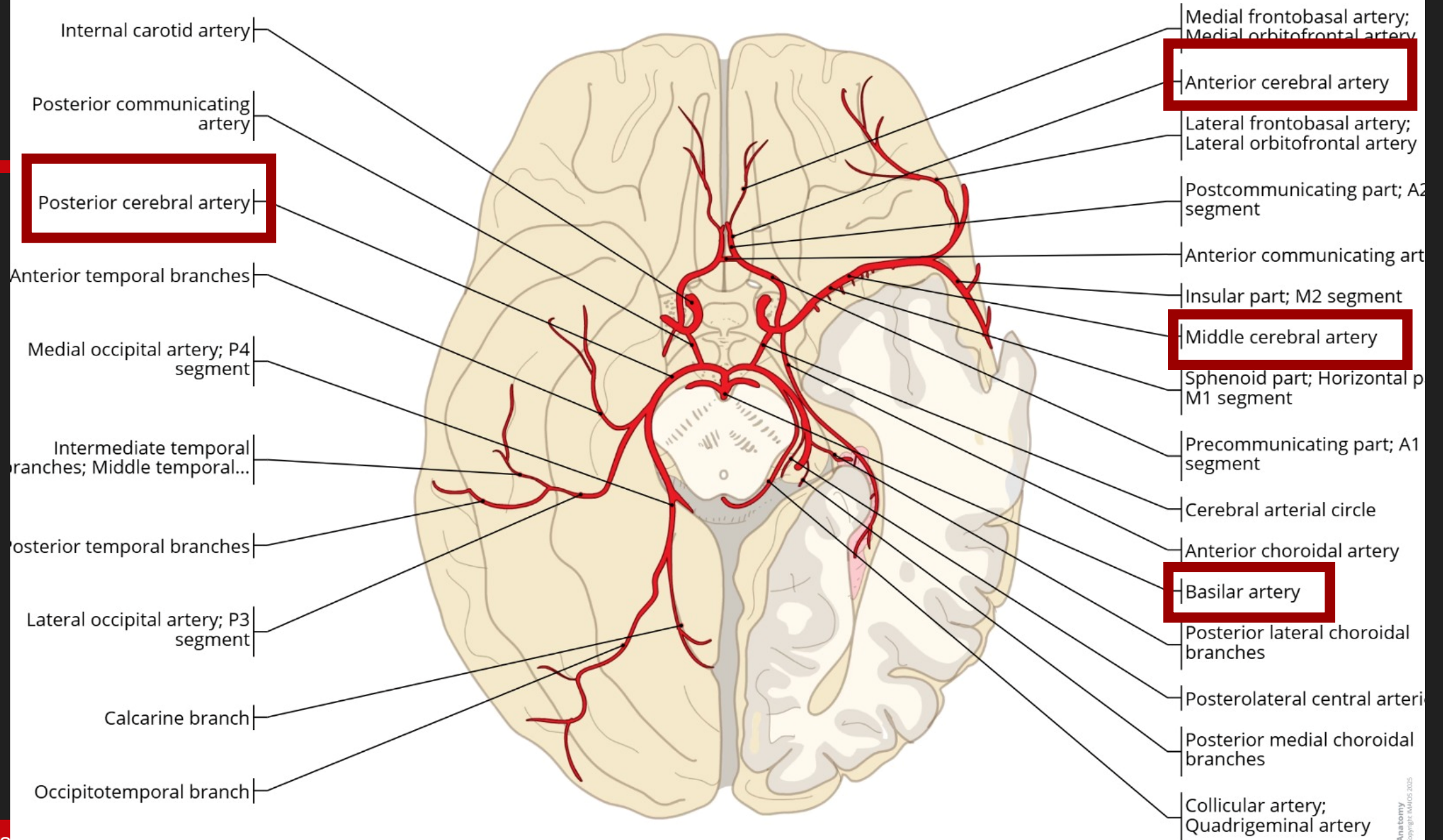
3D



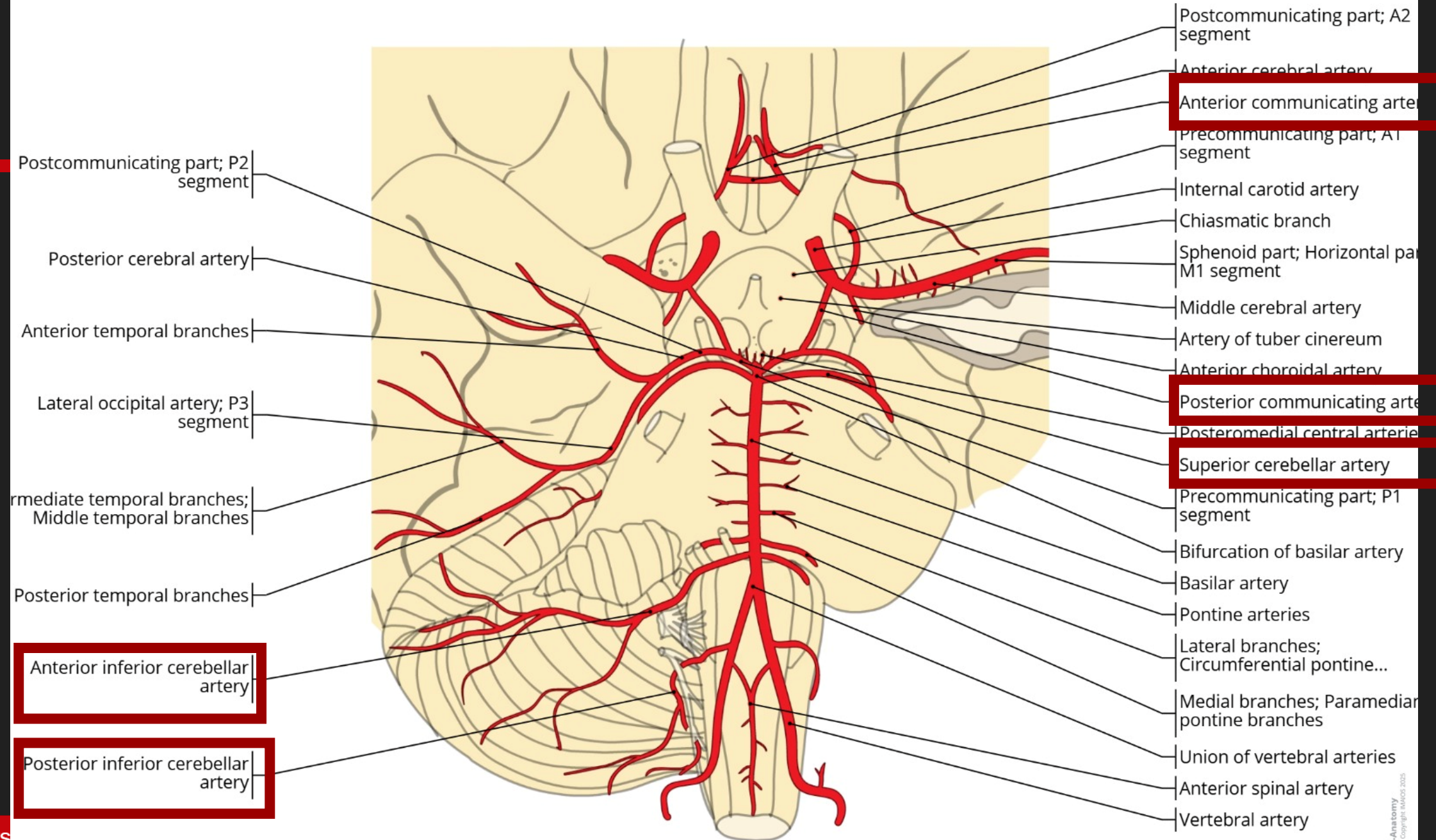
Cerebral arterial circle (Anterior view)



Arteries of brain (Inferior view)



Basilar artery (Anterior view)



SAGITTAL

Brain - CT (Axial)

Arteries



CORONAL

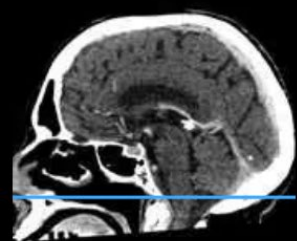
3D



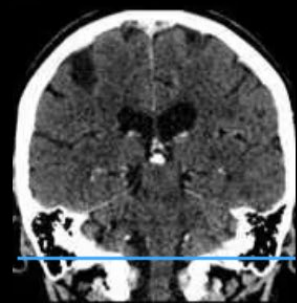
Internal carotid
artery: Cervical part

Vertebral artery:
Atlantic part; V3...

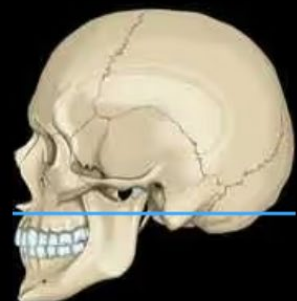
SAGITTAL



CORONAL



3D



Brain - CT (Axial)



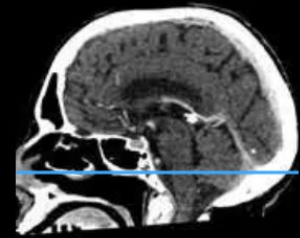
Internal carotid
artery: Cervical part

Vertebral artery:
Intracranial part; V4...

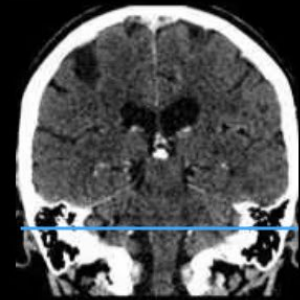
Arteries



SAGITTAL



CORONAL



3D



Brain - CT (Axial)



Internal carotid
artery: Petrous part

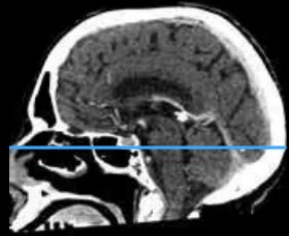
Vertebral artery:
Intracranial part; V4...

Posterior inferior
cerebellar artery

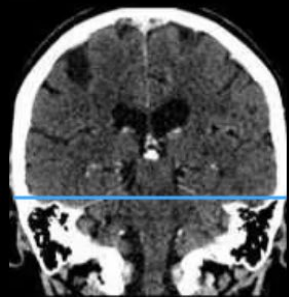
Arteries



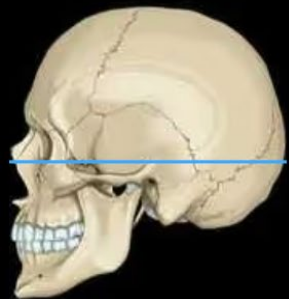
SAGITTAL



CORONAL



3D



Brain - CT (Axial)

Arteries





Cerebral arterial circle

Posterior cerebral artery:
Precommunicating part; P1...Posterior cerebral artery:
Postcommunicating part; P2...

Basilar artery

Middle cerebral artery: insular
part; M2 segmentMiddle cerebral artery: Sphenoid
part; Horizontal part; M1...Anterior cerebral artery:
Postcommunicating part; A2...Anterior cerebral artery:
Precommunicating part; A1...

SAGITTAL

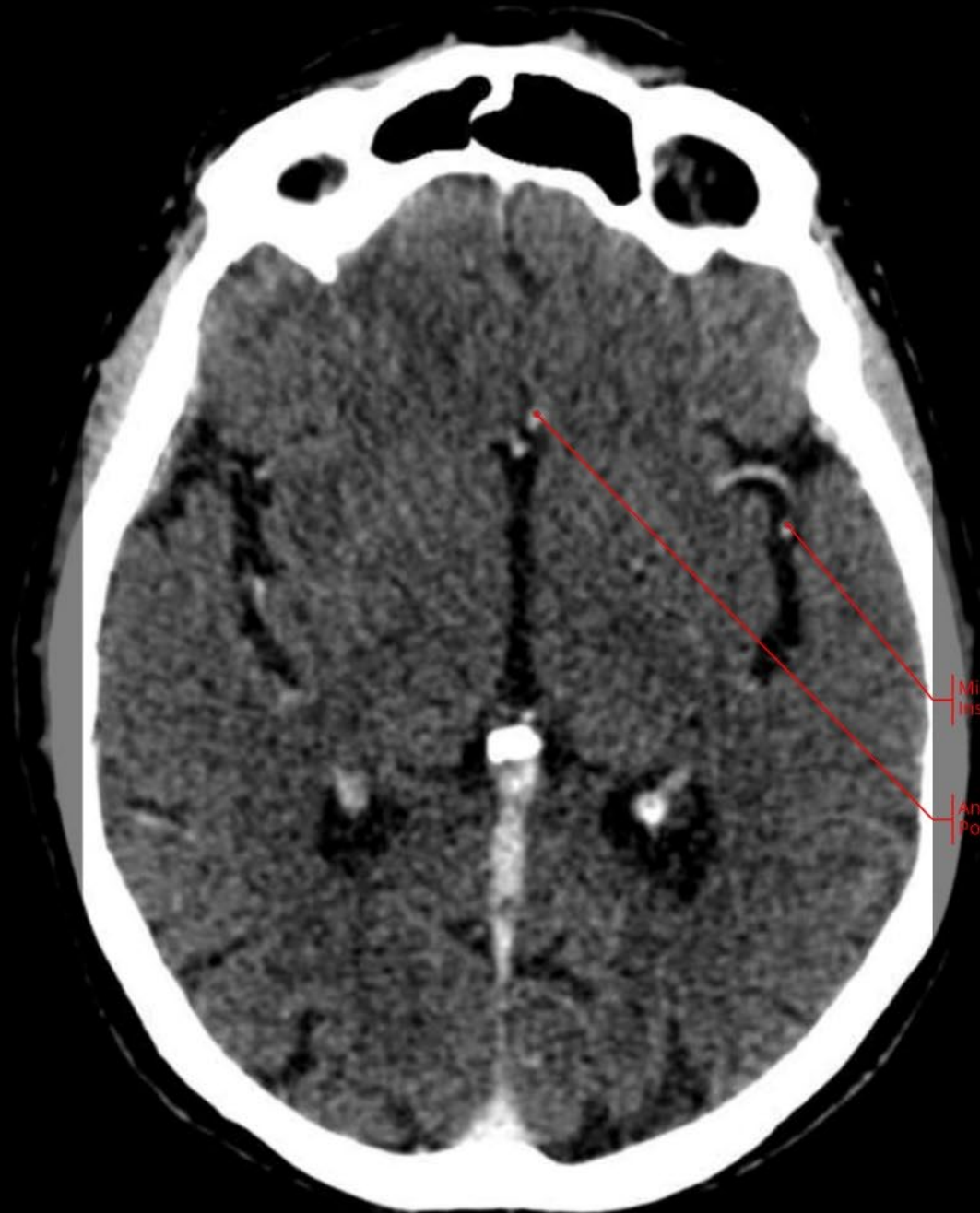
Brain - CT (Axial)

Arteries



CORONAL

3D



Middle cerebral artery:
Insular part; M2 segment

Anterior cerebral artery:
Postcommunicating part;...

SAGITTAL

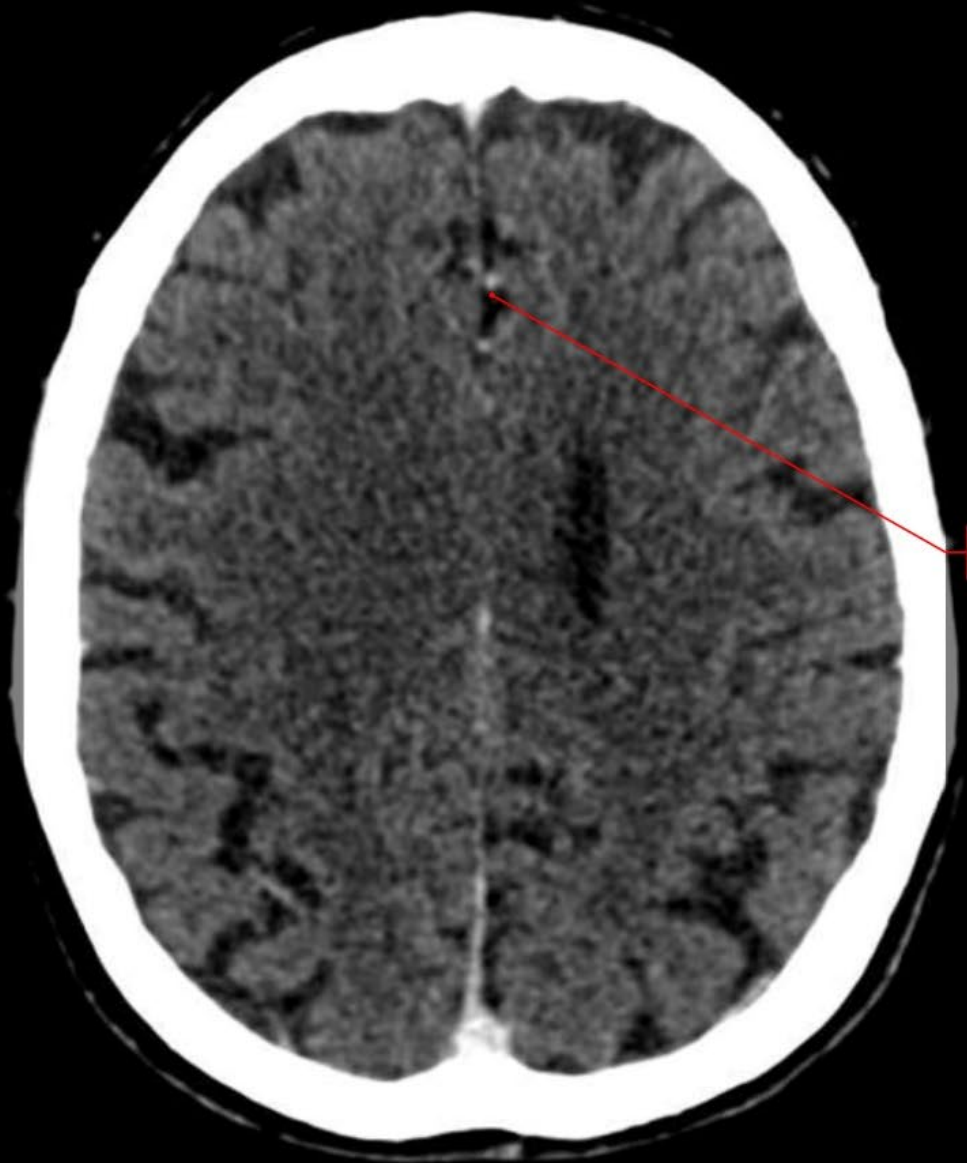
Brain - CT (Axial)

Arteries



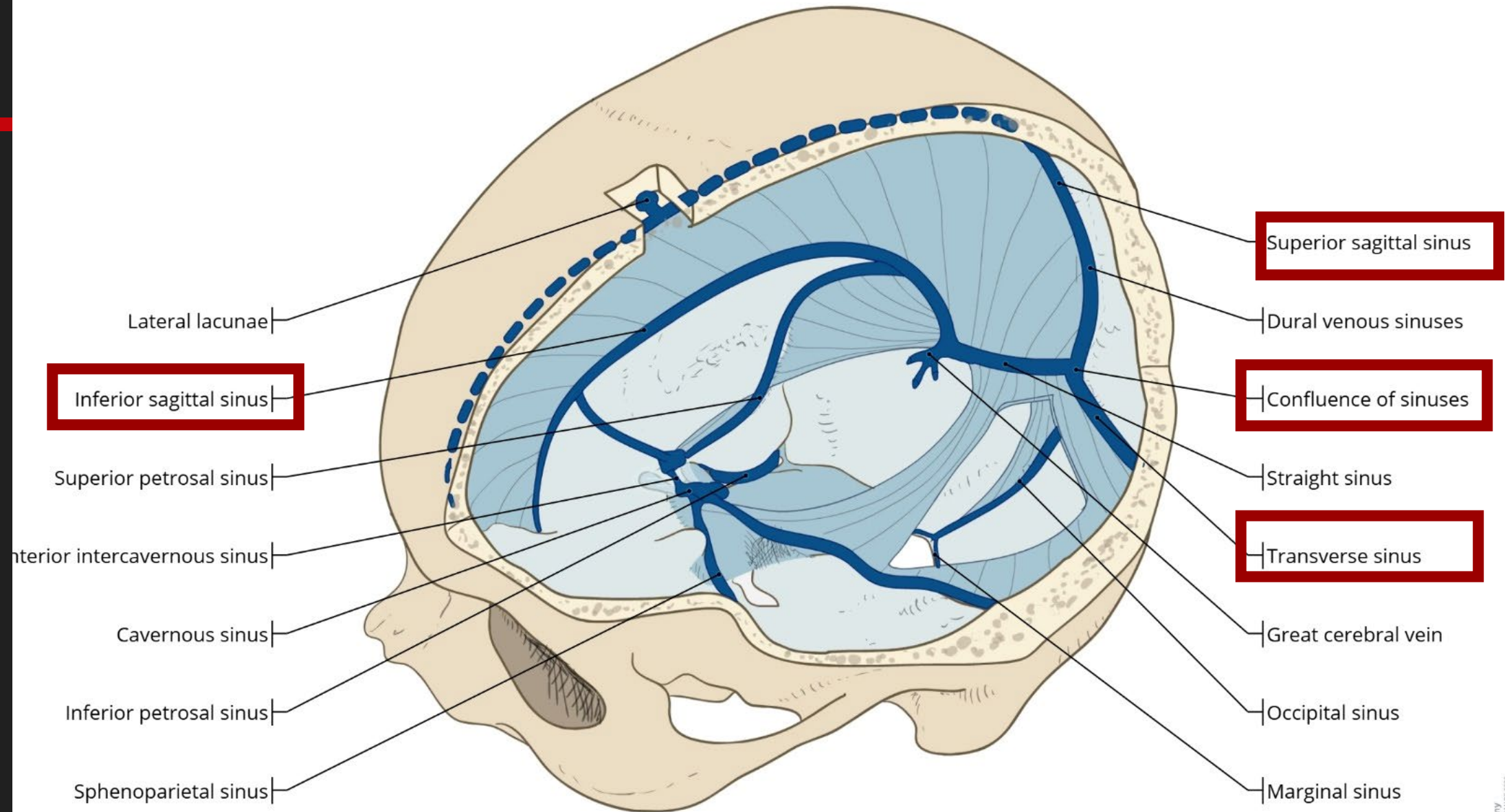
CORONAL

3D

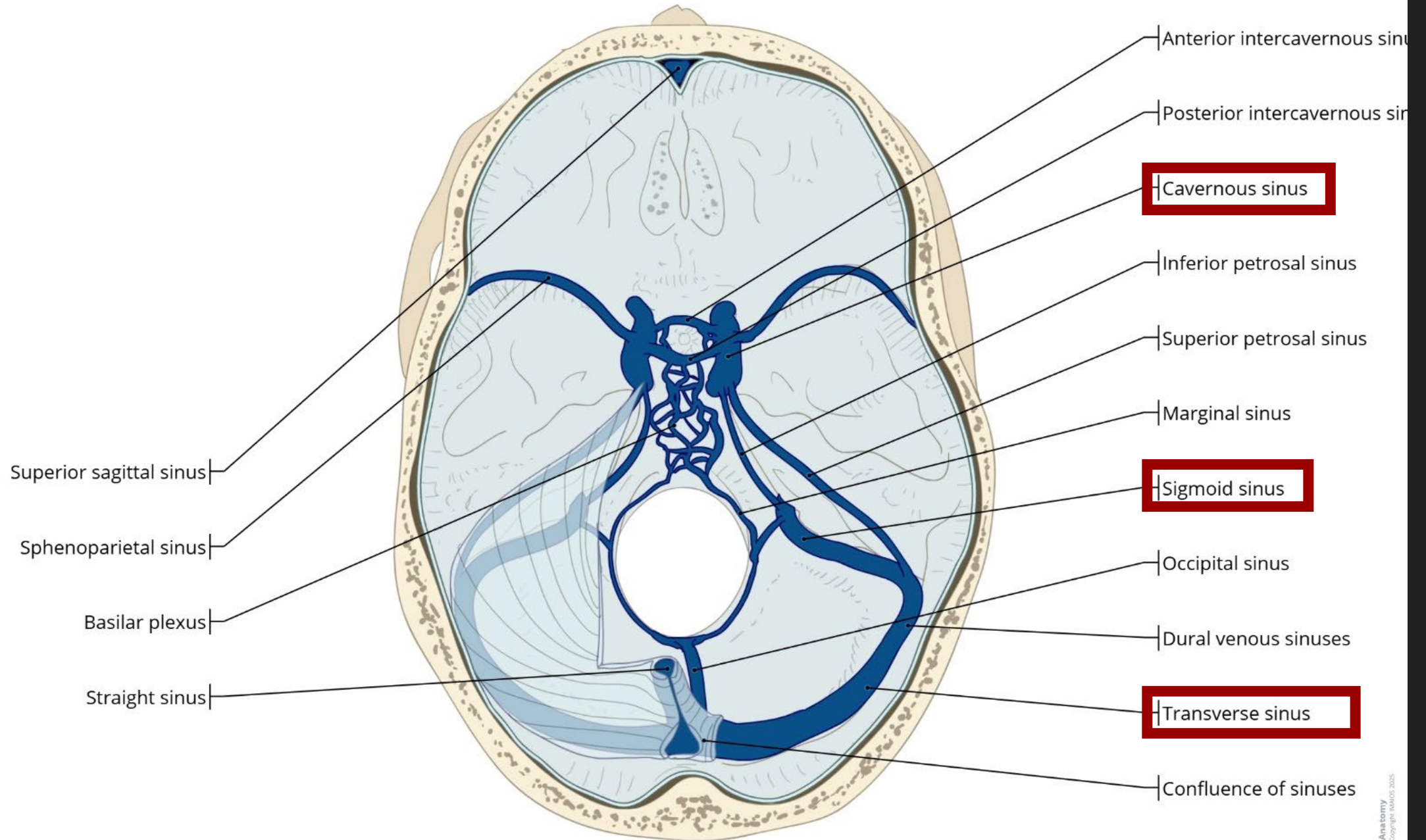


Anterior cerebral artery:
Postcommunicating part;...

Dural venous sinuses (Oblique view)

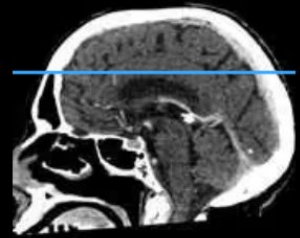


Dural venous sinuses (Superior view)

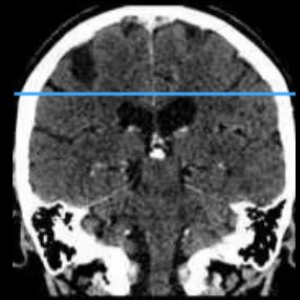




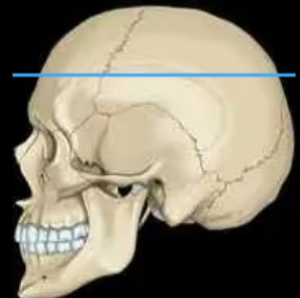
SAGITTAL



CORONAL



3D



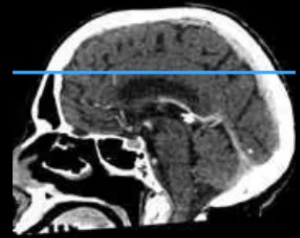
Brain - CT (Axial)



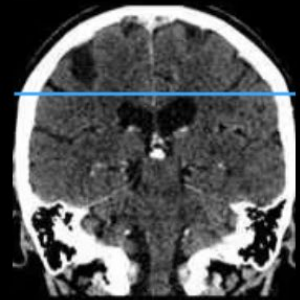
Veins



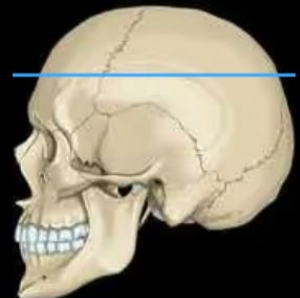
SAGITTAL



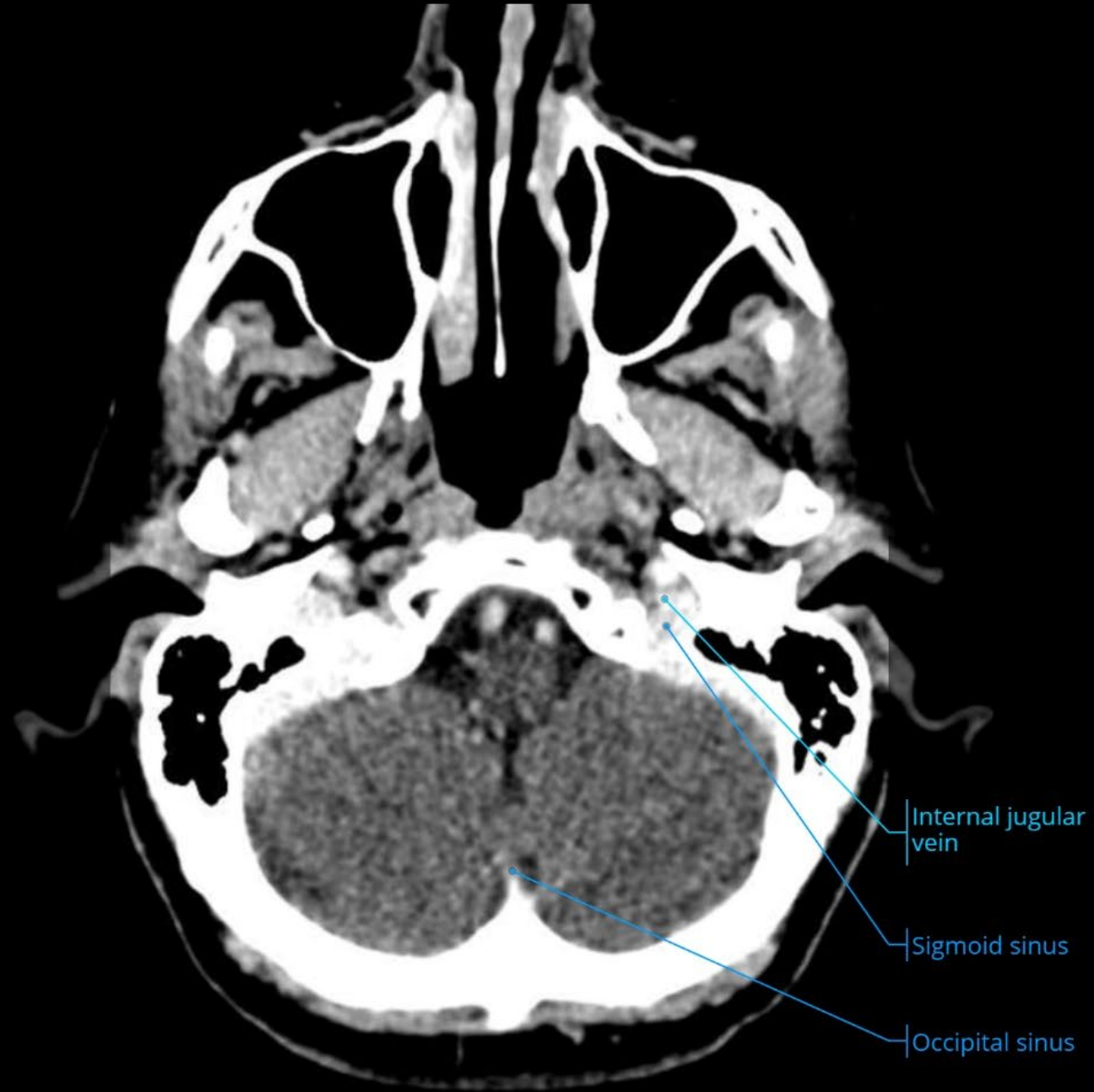
CORONAL



3D



Brain - CT (Axial)



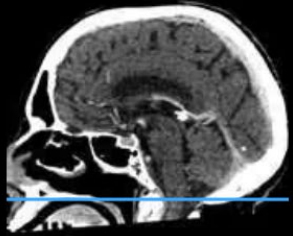
Veins



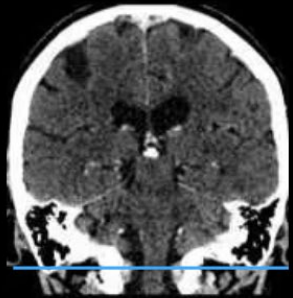
SAGITTAL

Brain - CT (Axial)

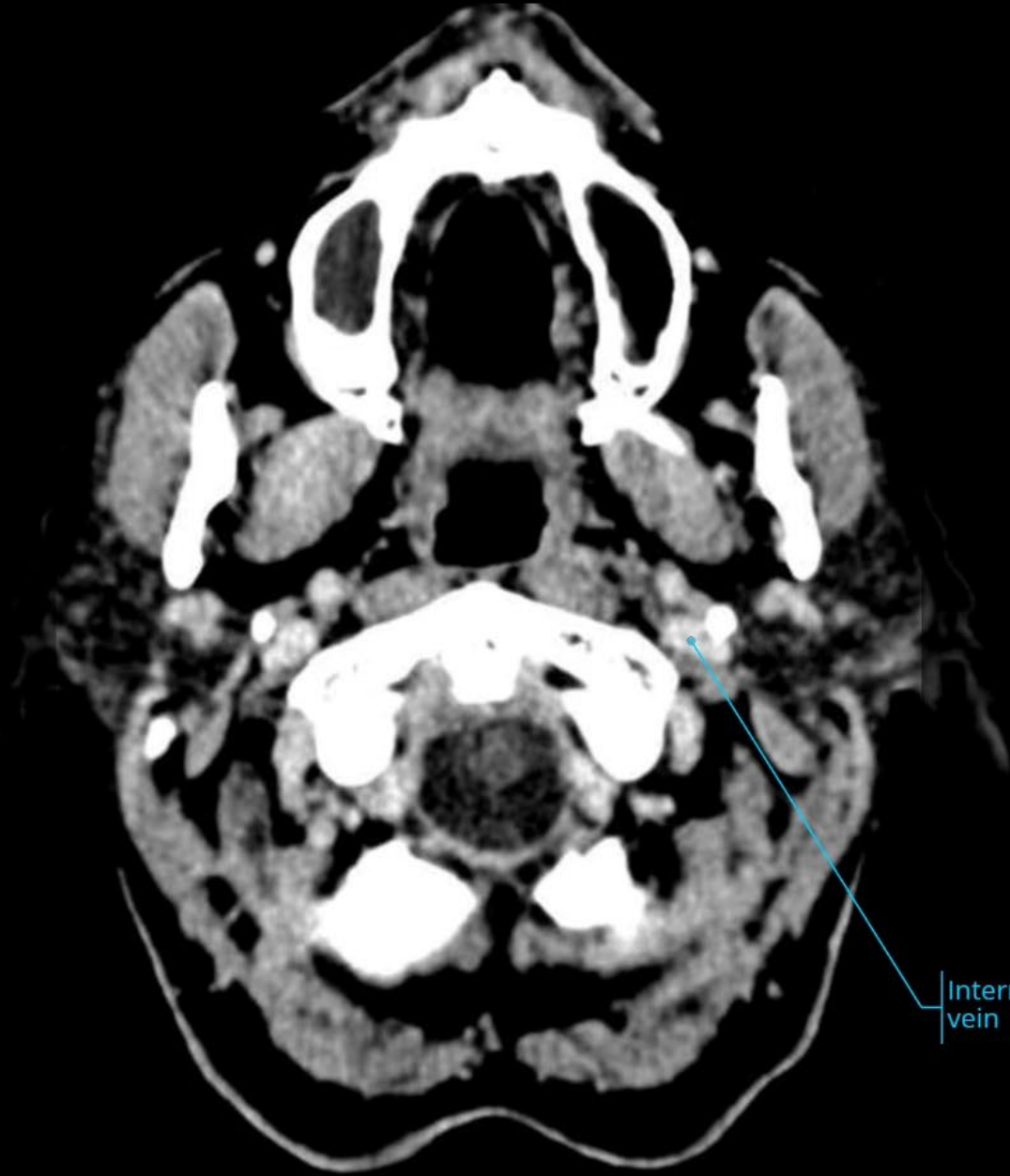
Veins



CORONAL

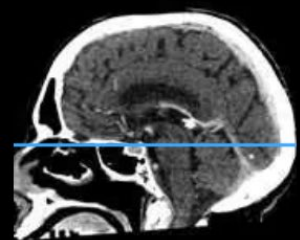


3D

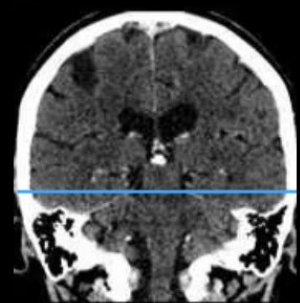


Internal jugular vein

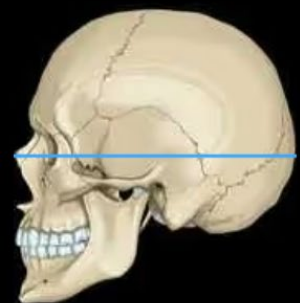
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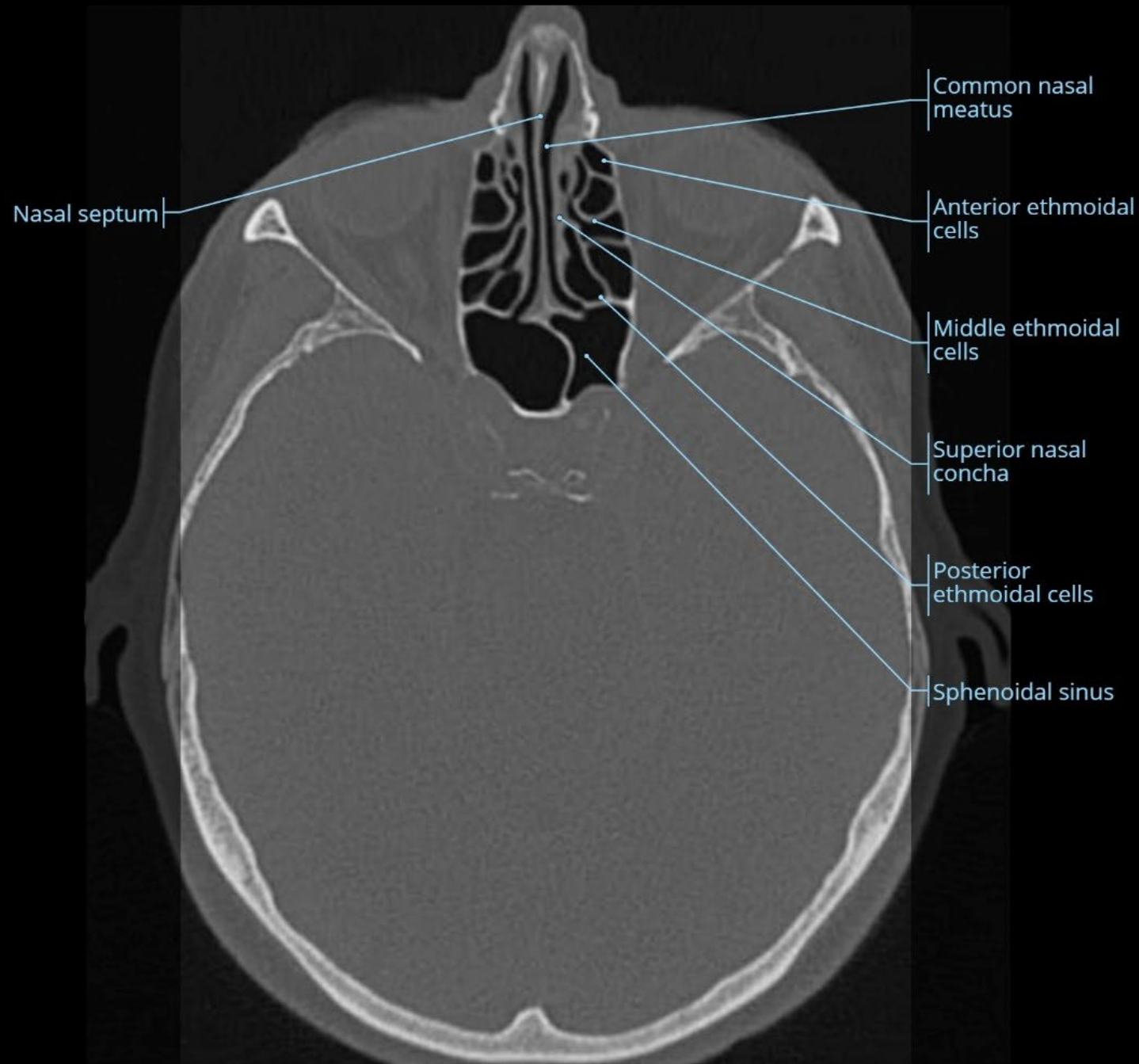
CORONAL



3D

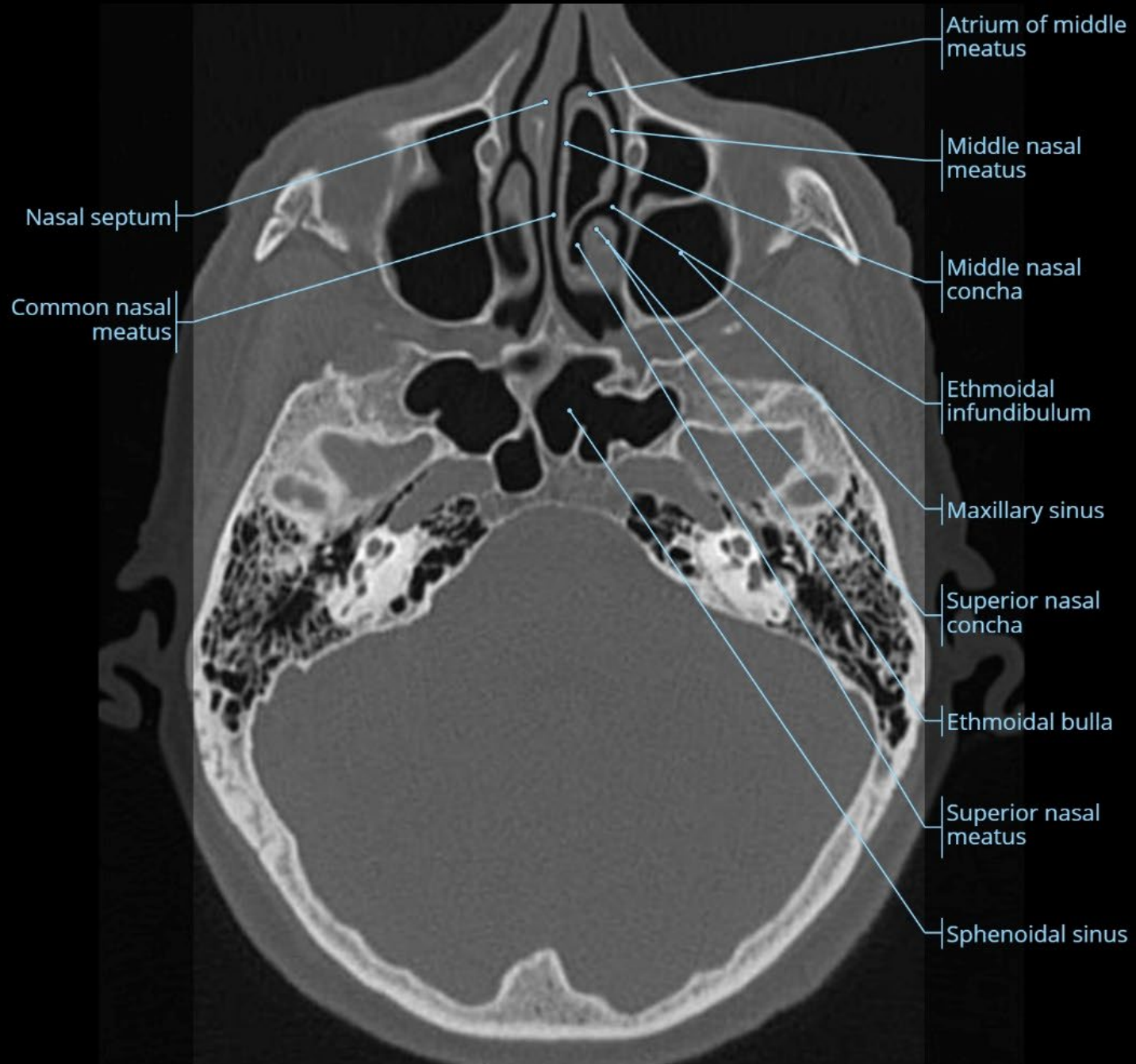
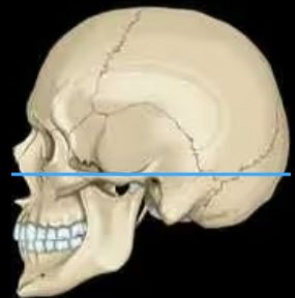
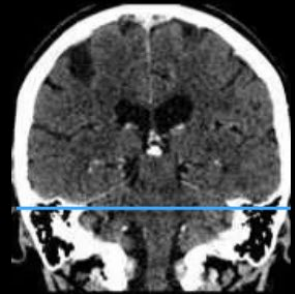
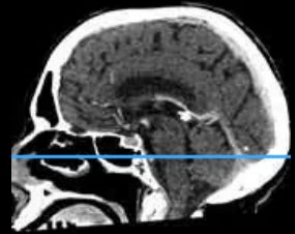


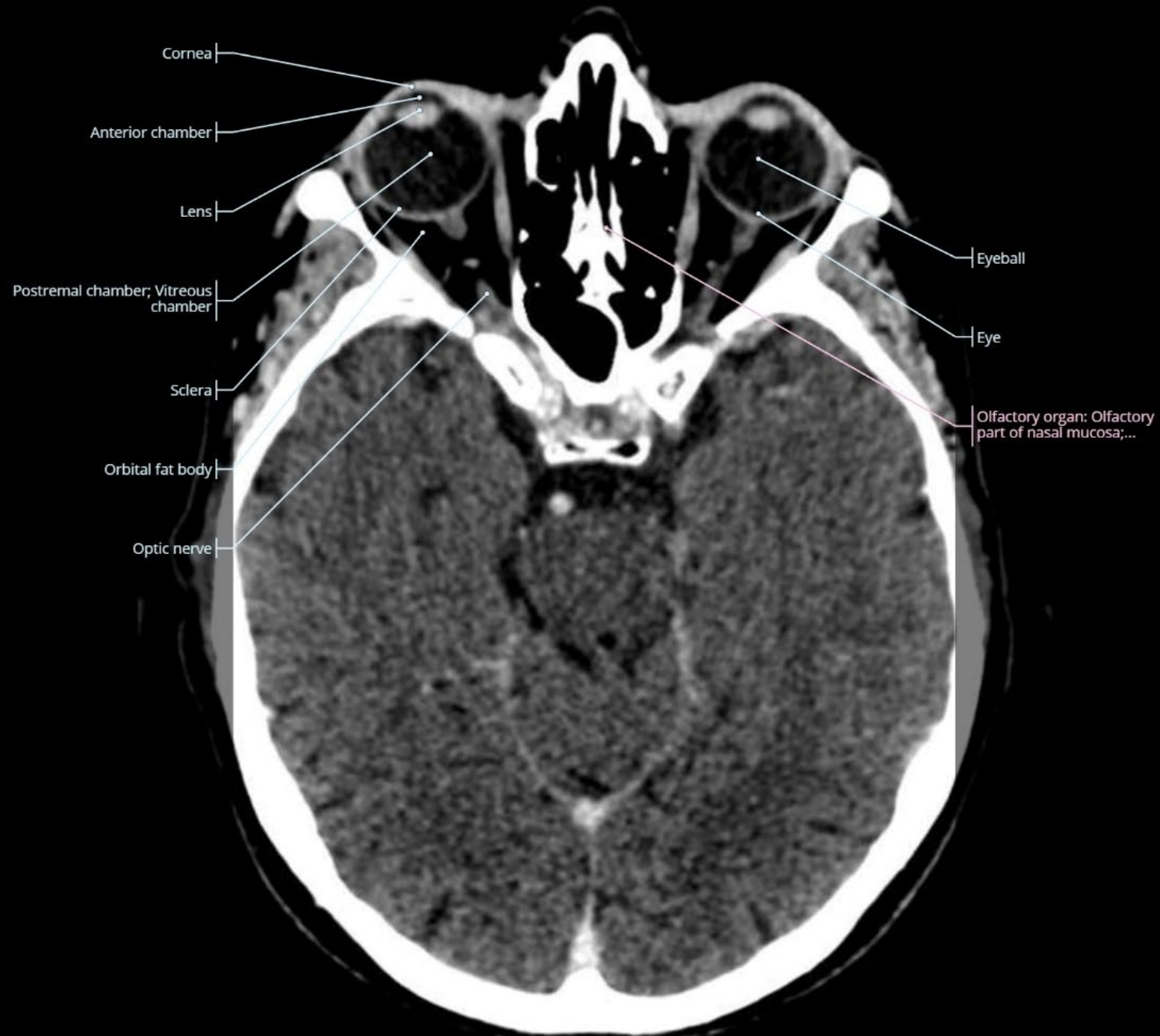
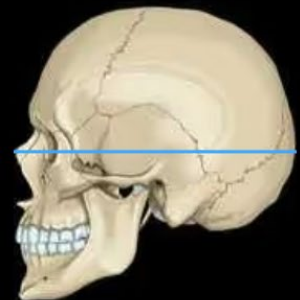
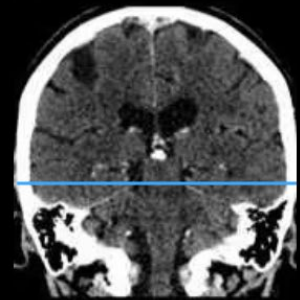
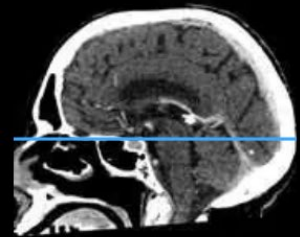
Brain - CT (Axial)



Sinuses

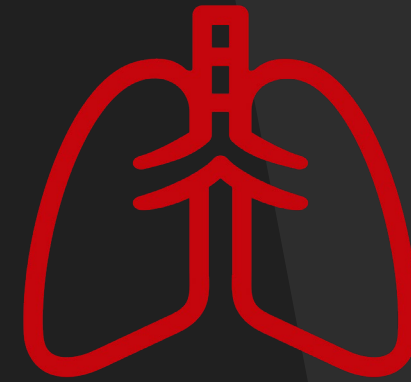




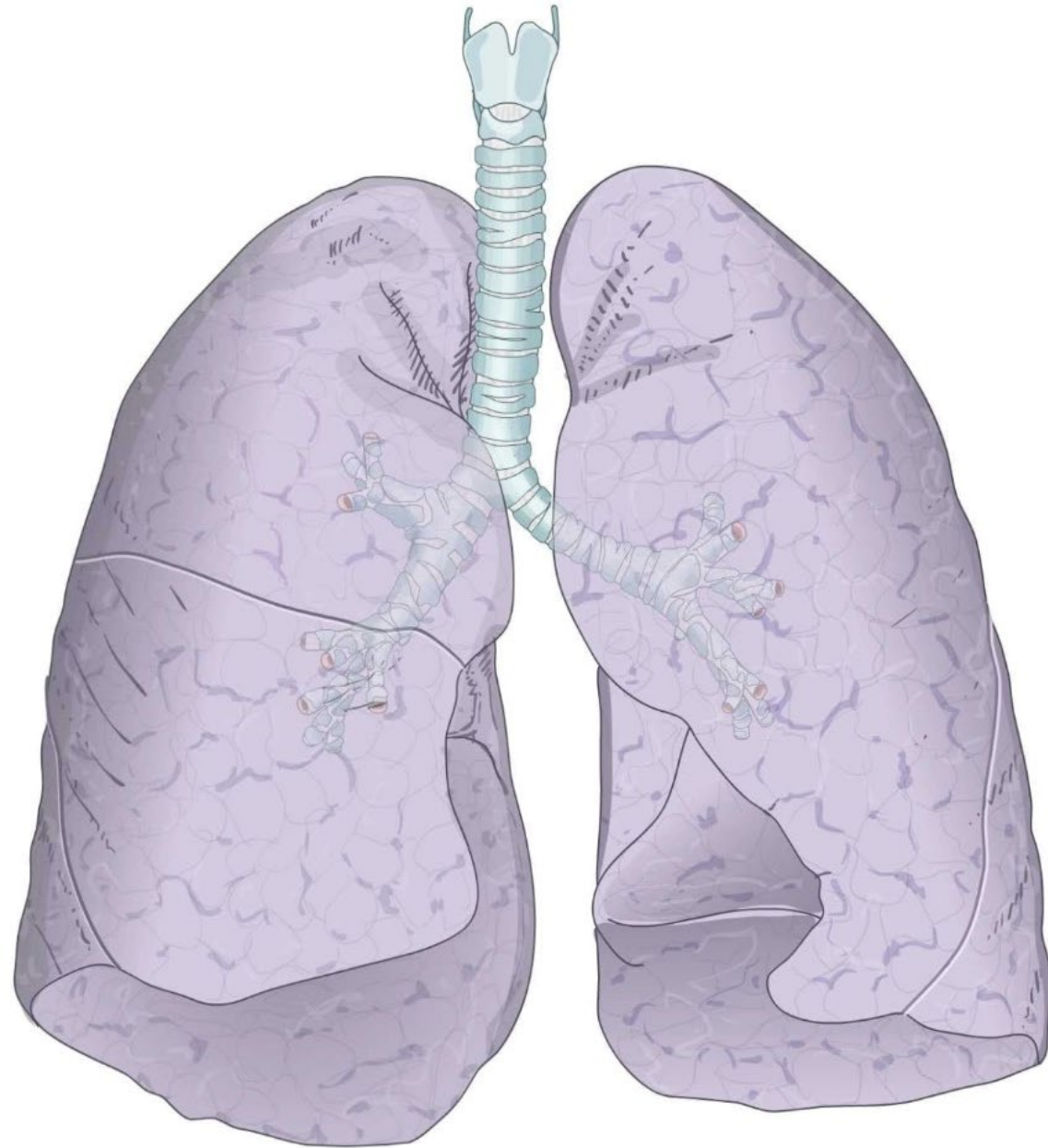




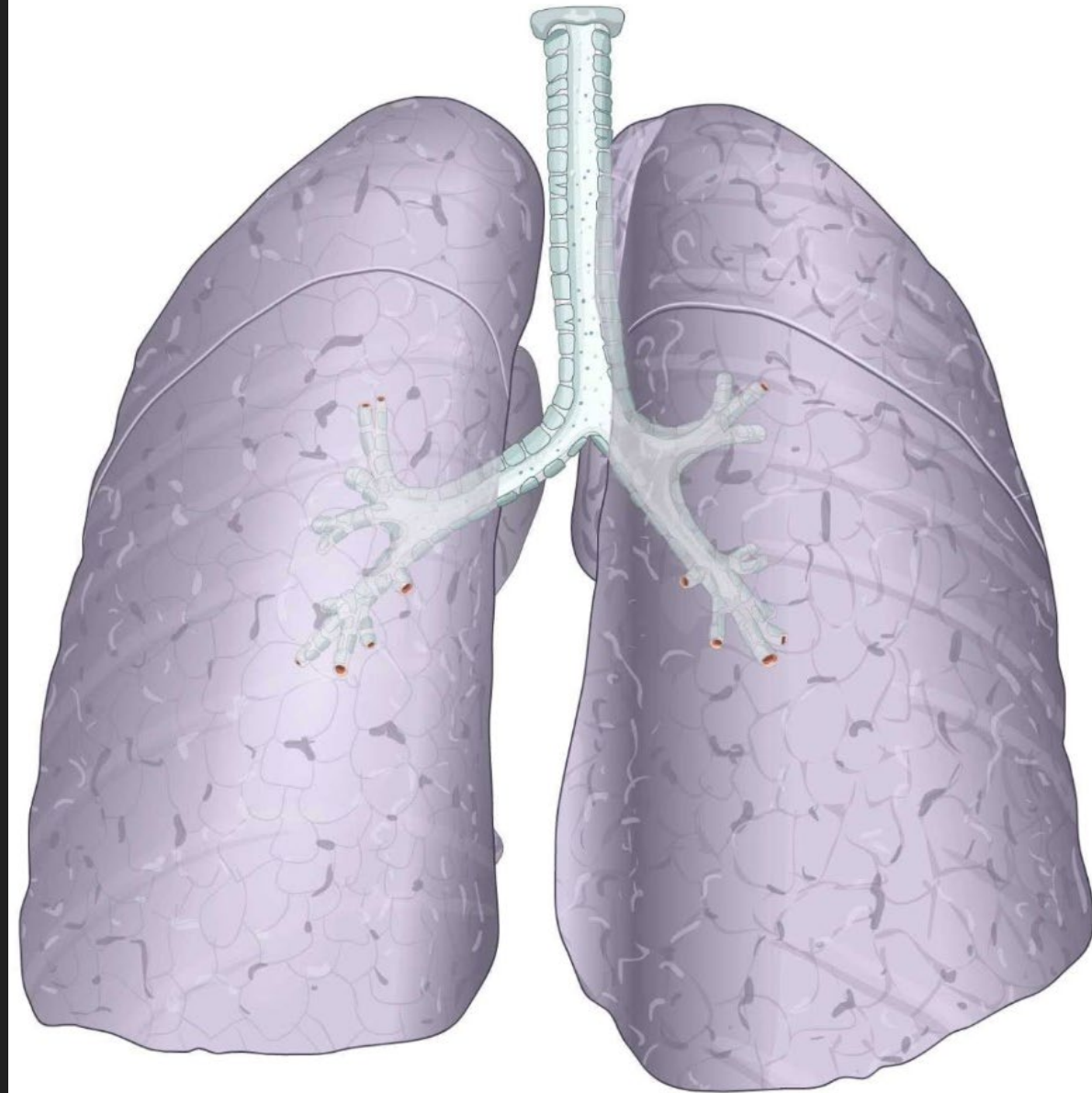
Chest



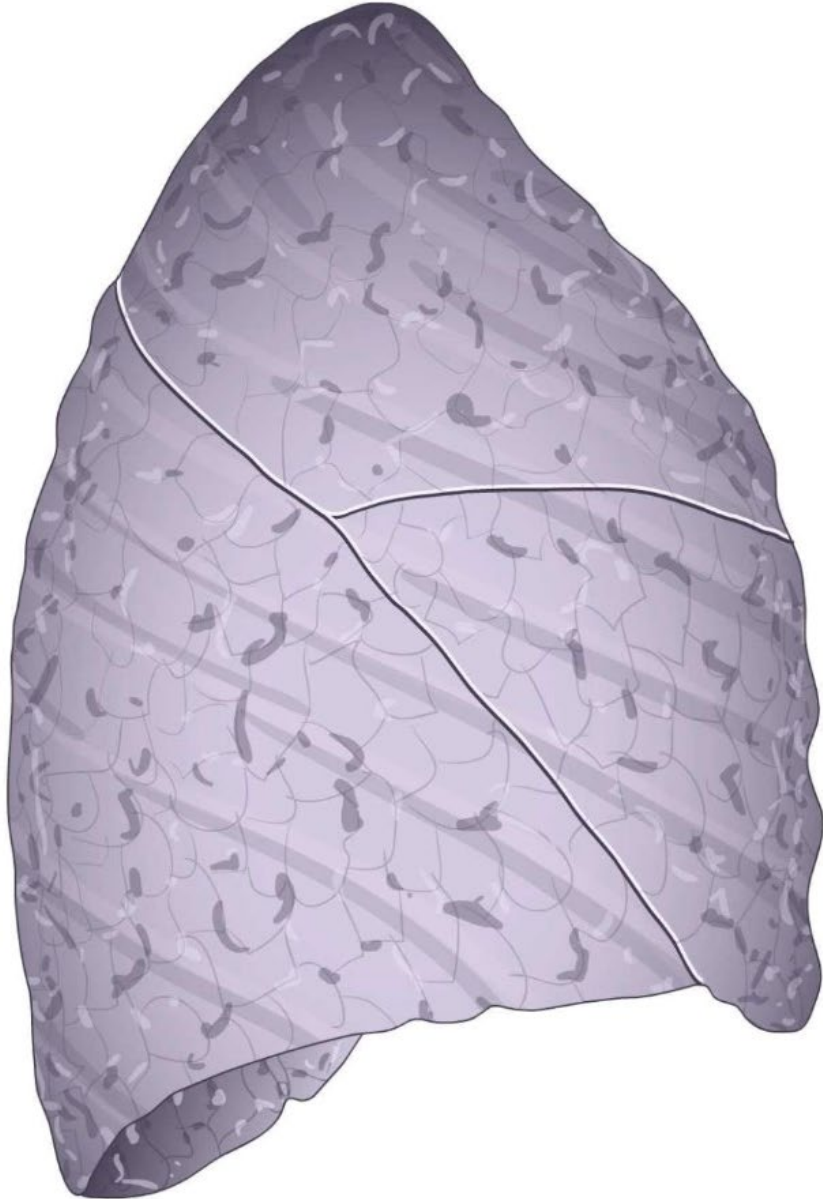
Lungs (Anterior view)



Lungs (Posterior view)



Right lung (Lateral view)

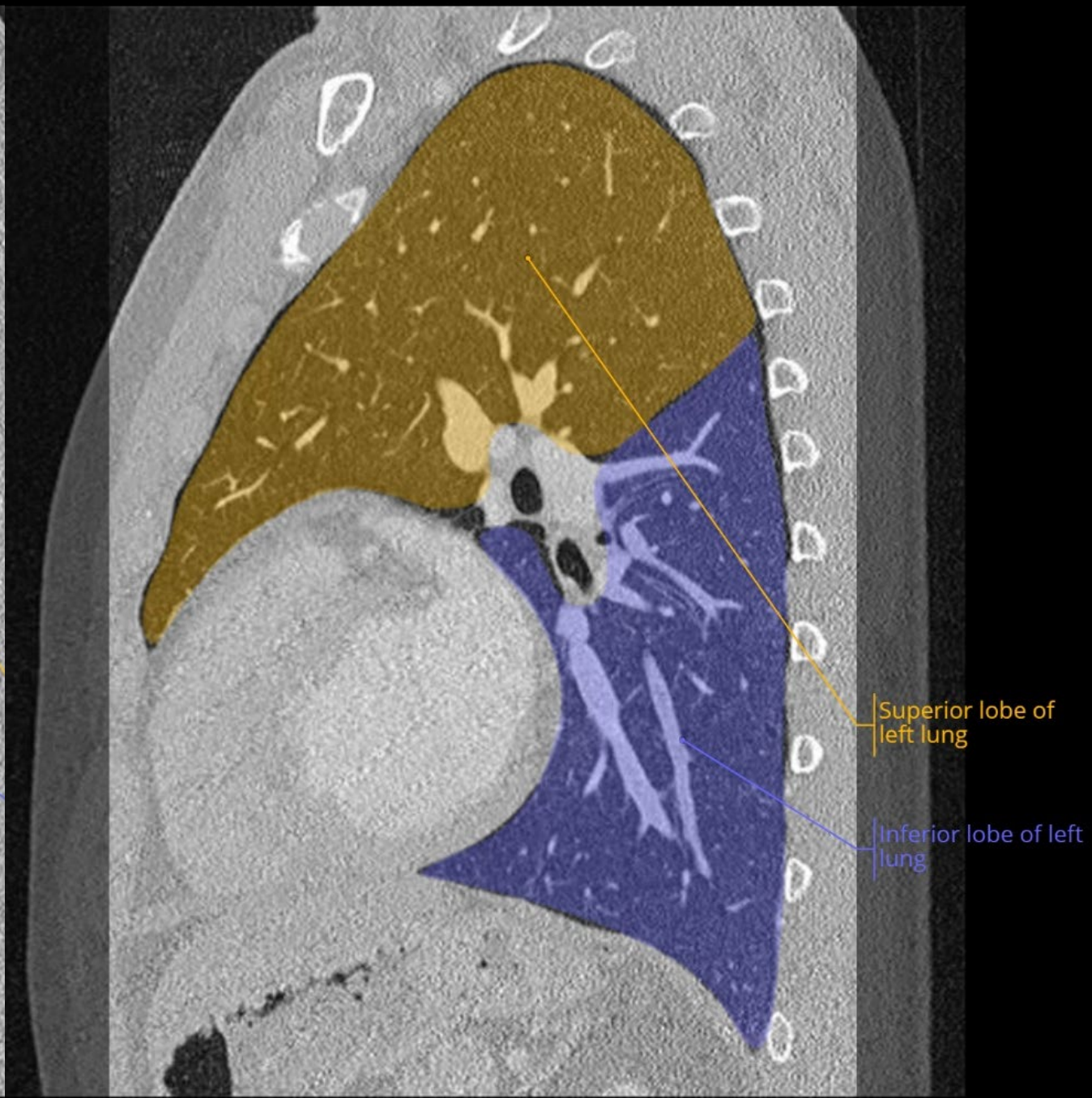
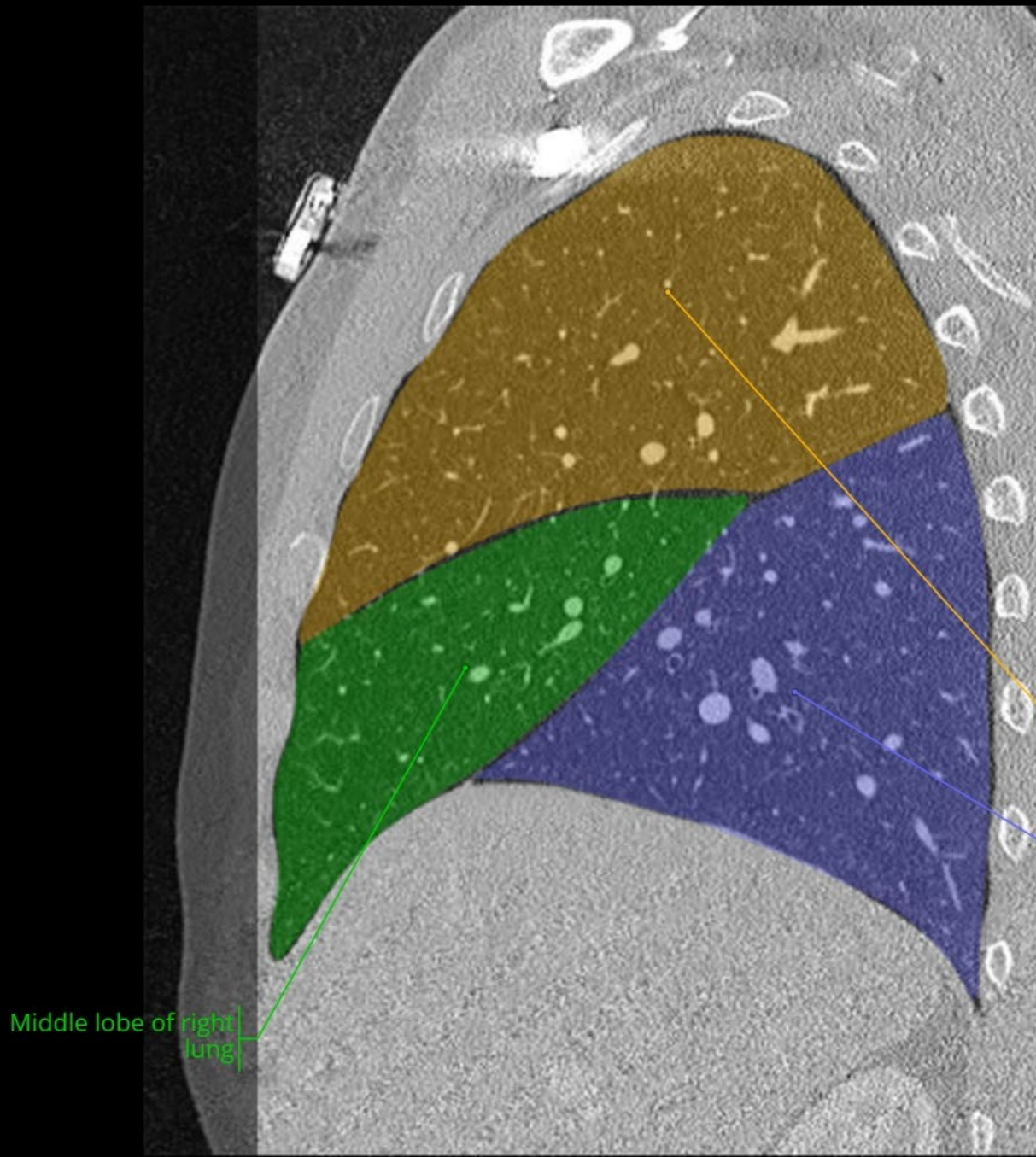


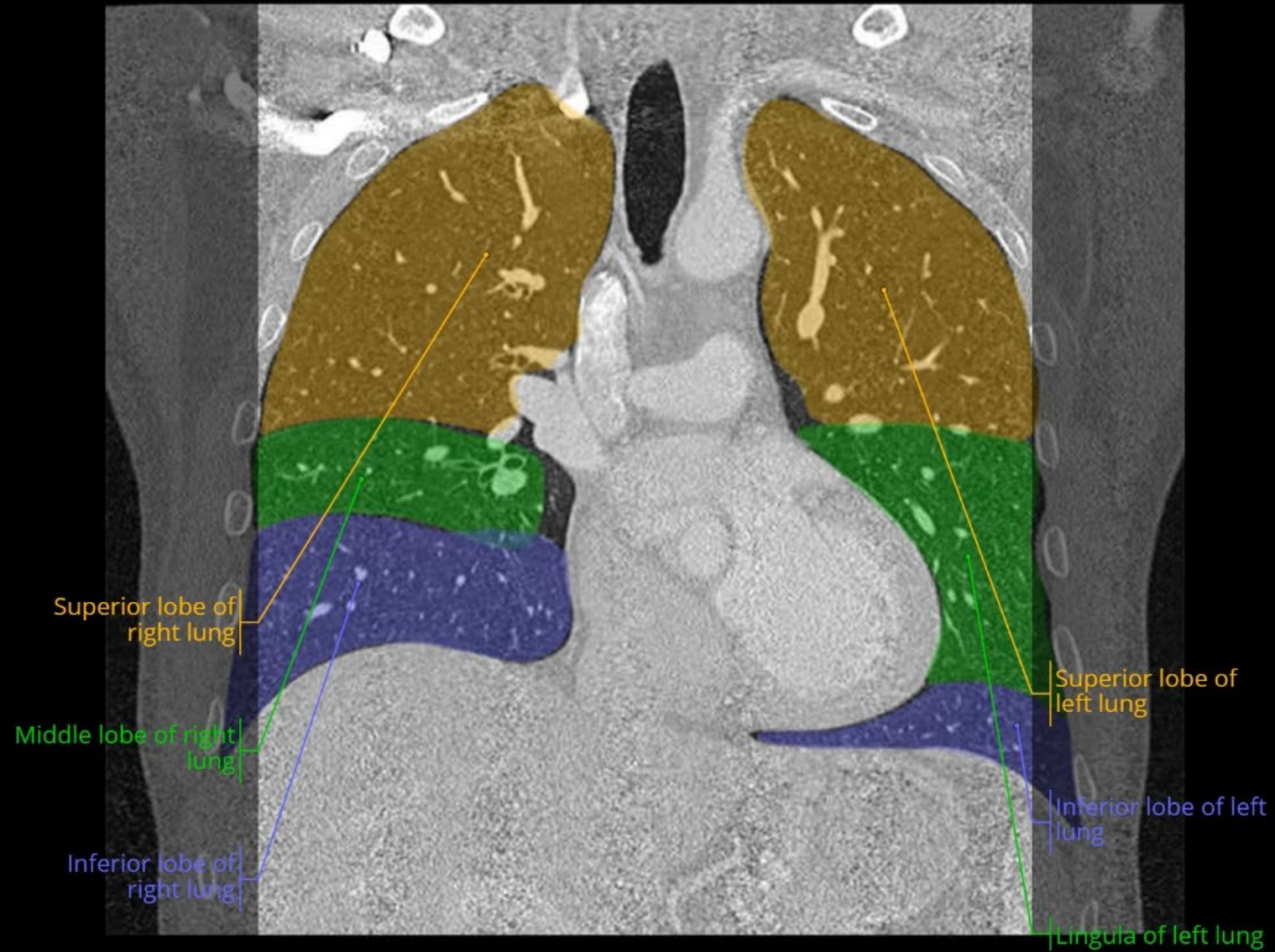
Left lung (Lateral view)



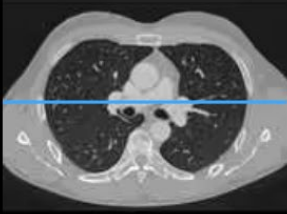
Thorax - CT (Sagittal cross section)

Thorax - CT (Sagittal cross section)

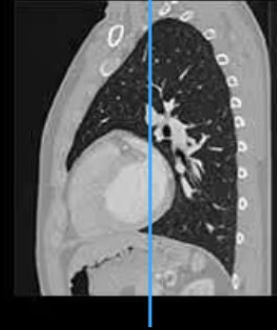




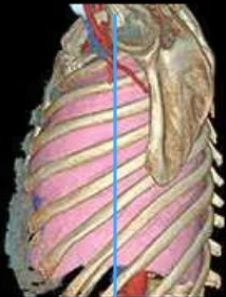
AXIAL



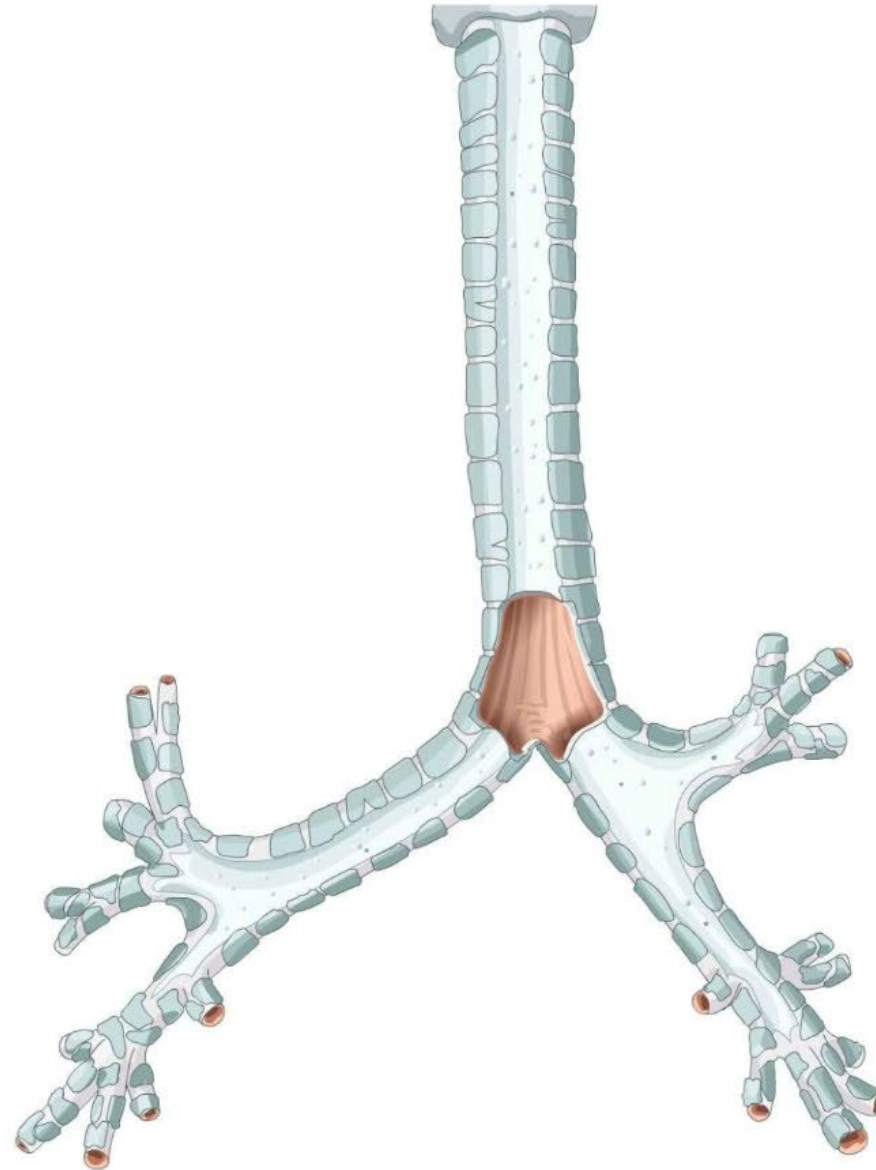
SAGITTAL



VR



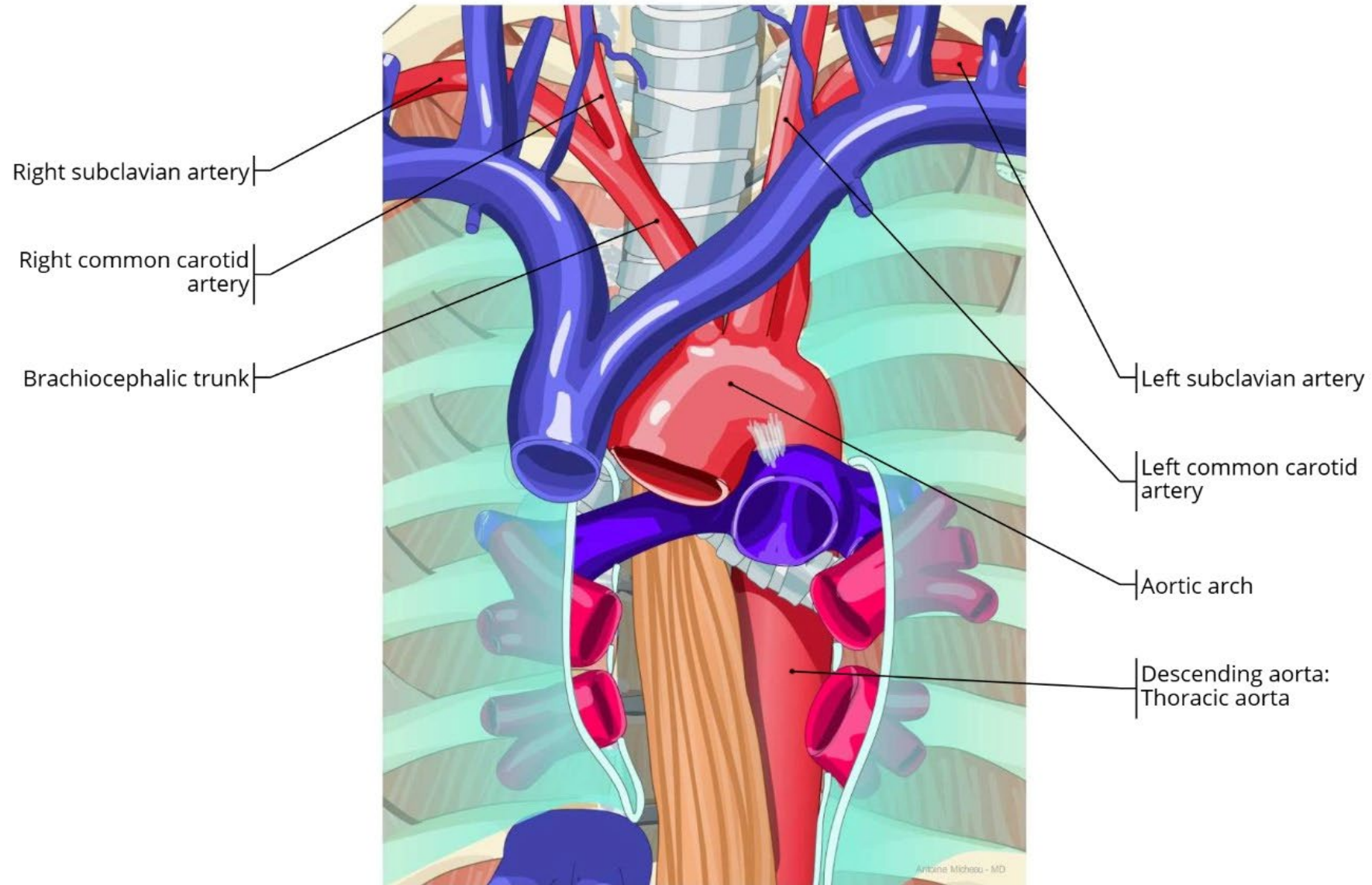
Bronchial tree (Posterior view)



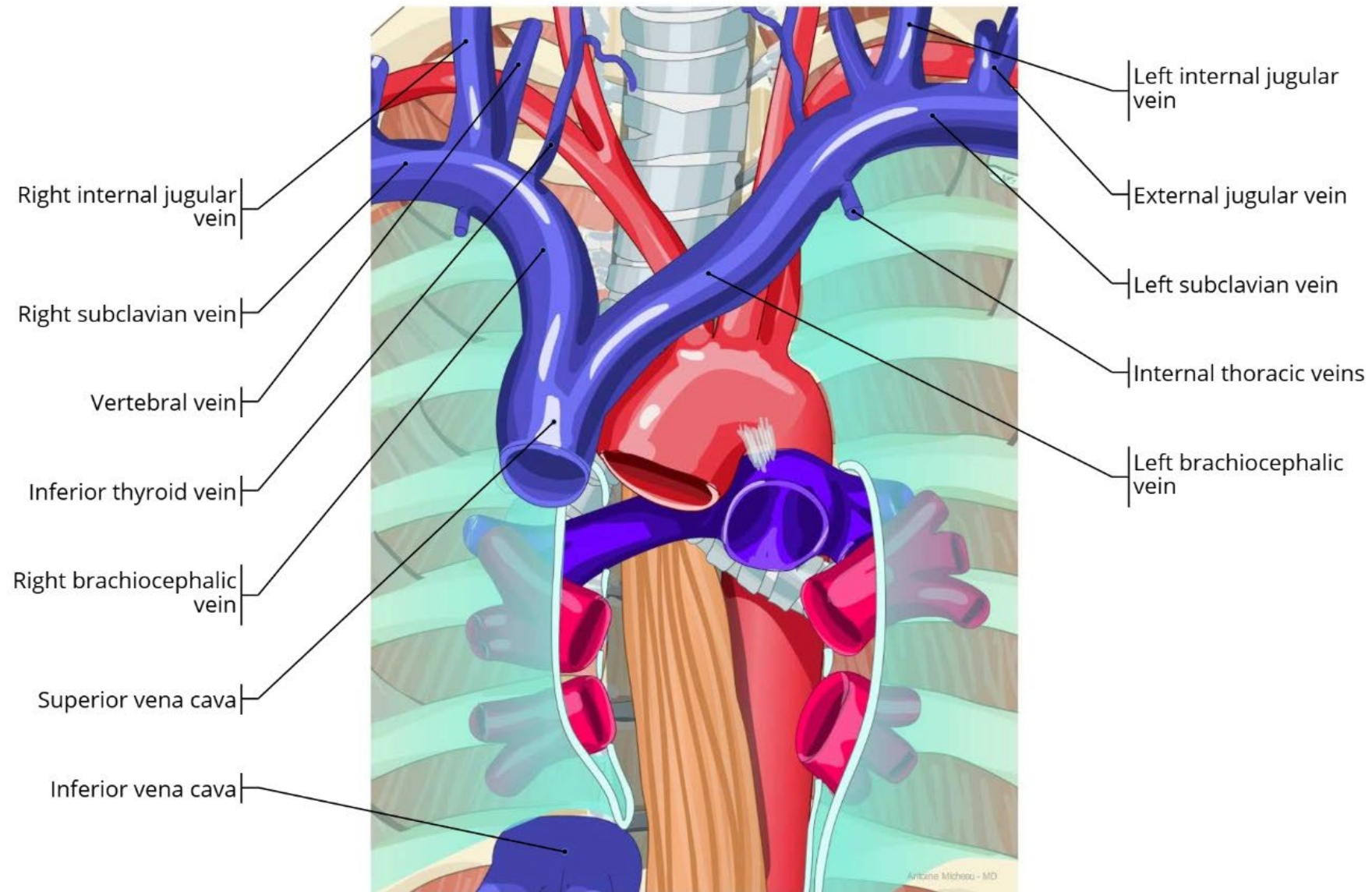




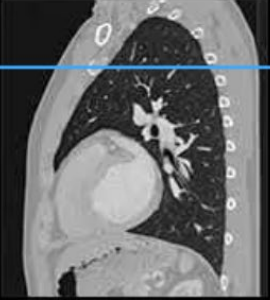
Middle mediastinum (Anterior view)



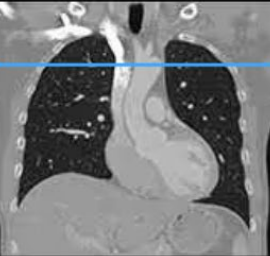
Middle mediastinum (Anterior view)



SAGITTAL



CORONAL



VR

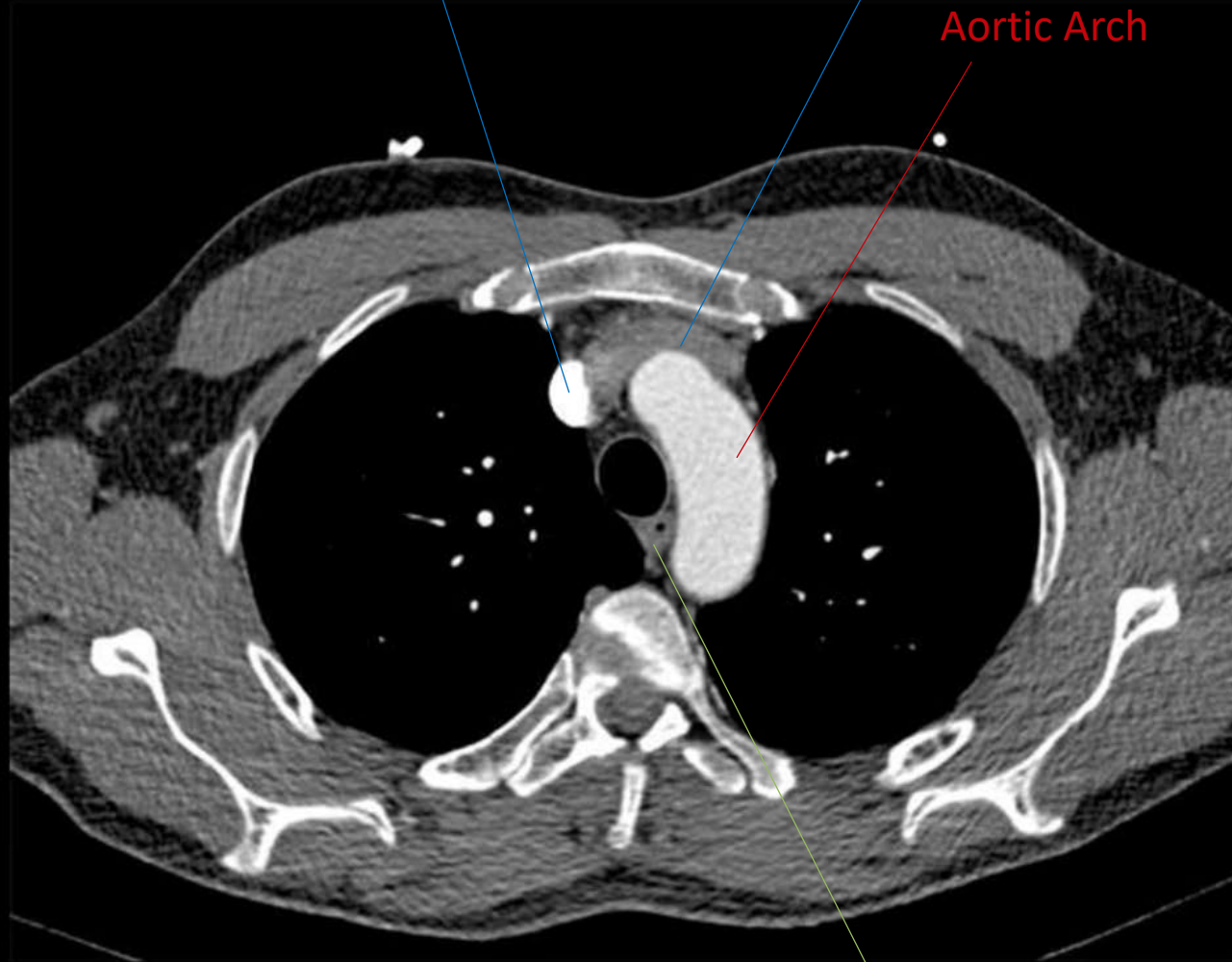


Thorax - CT (Axial cross section)

Left Brachiocephalic Vein

Superior Vena Cava

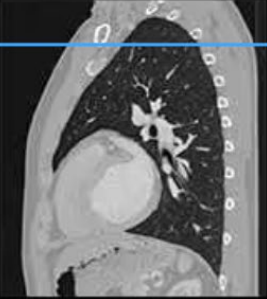
Aortic Arch



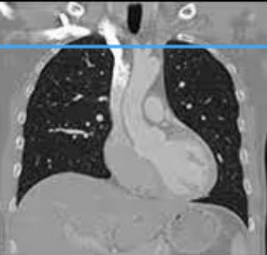
Esophagus



SAGITTAL



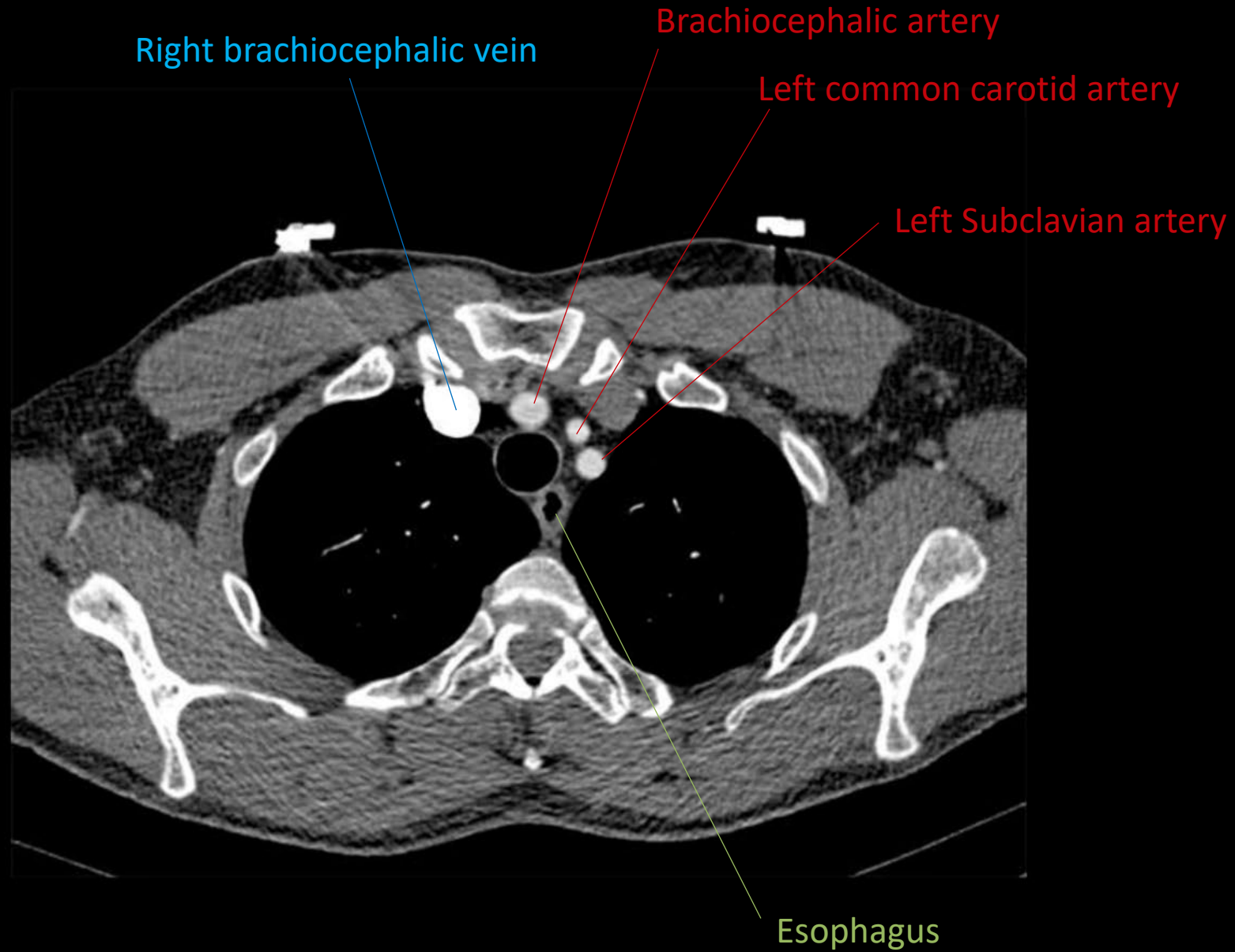
CORONAL



VR



Thorax - CT (Axial cross section)



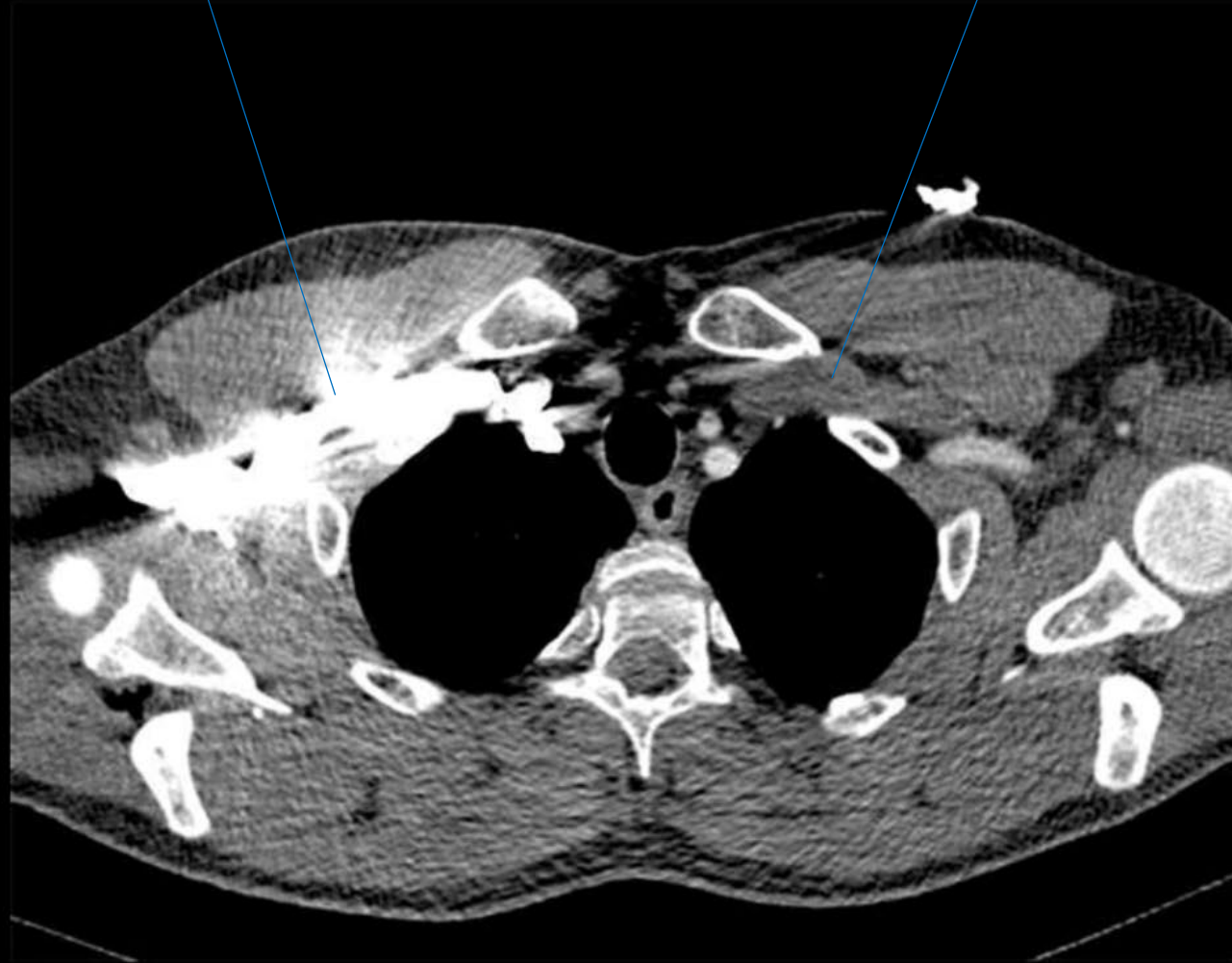
SAGITTAL

Thorax - CT (Axial cross section)

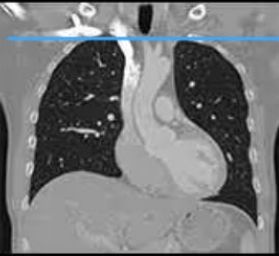


Right subclavian vein

Left subclavian vein



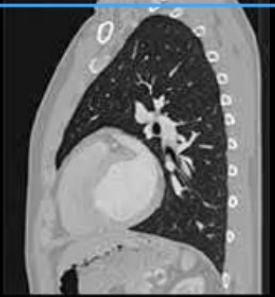
CORONAL



VR



SAGITTAL



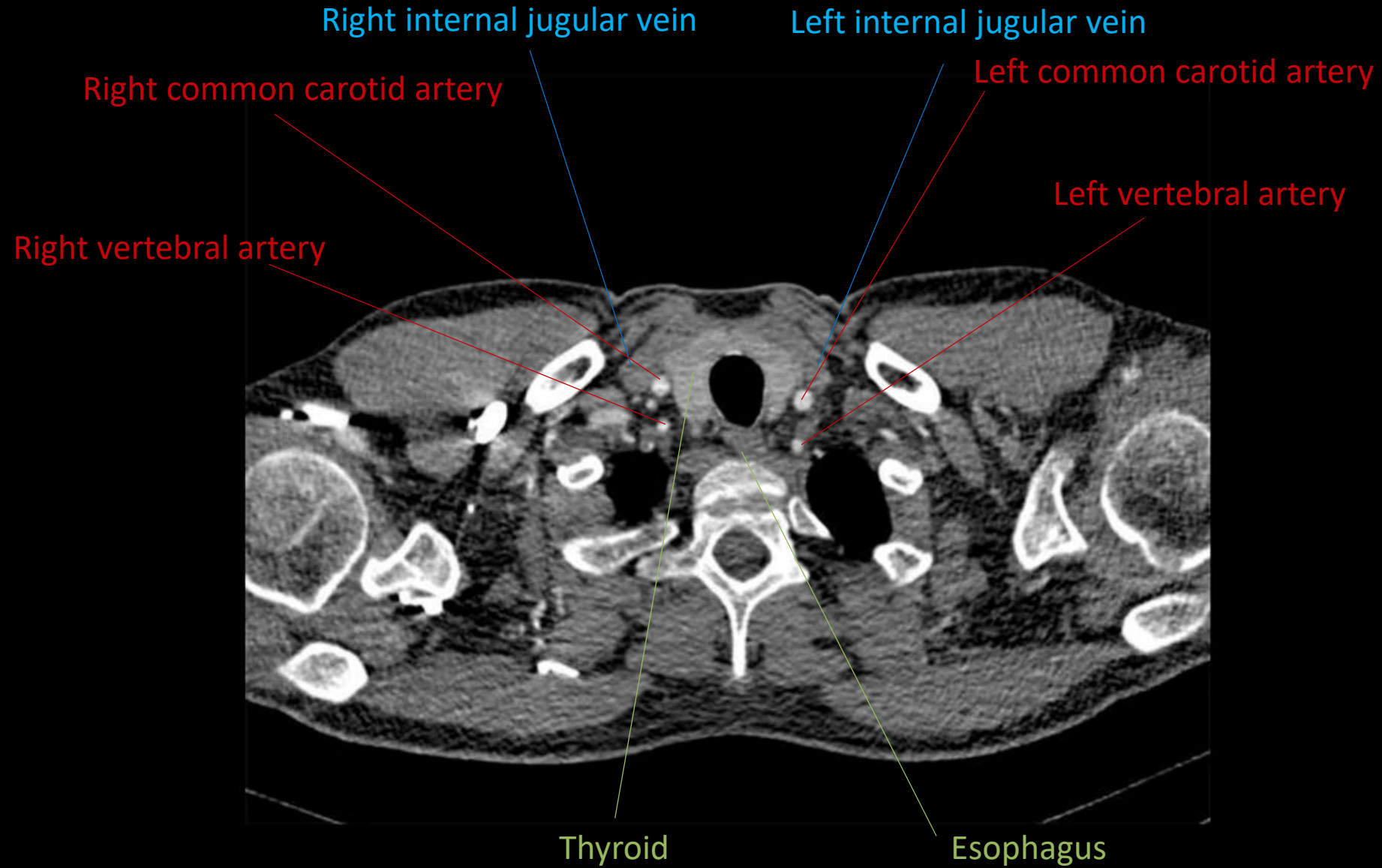
CORONAL



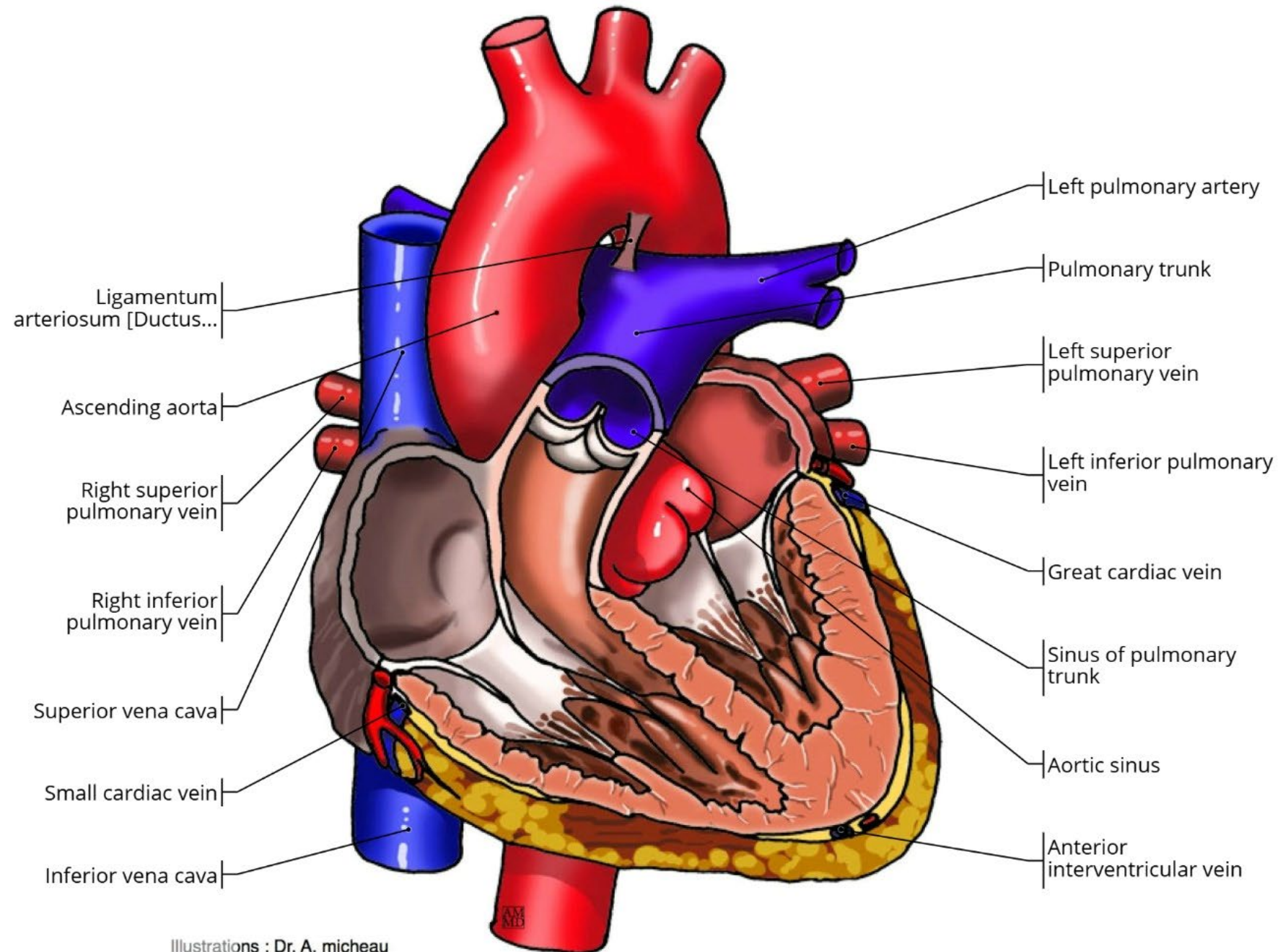
VR



Thorax - CT (Axial cross section)

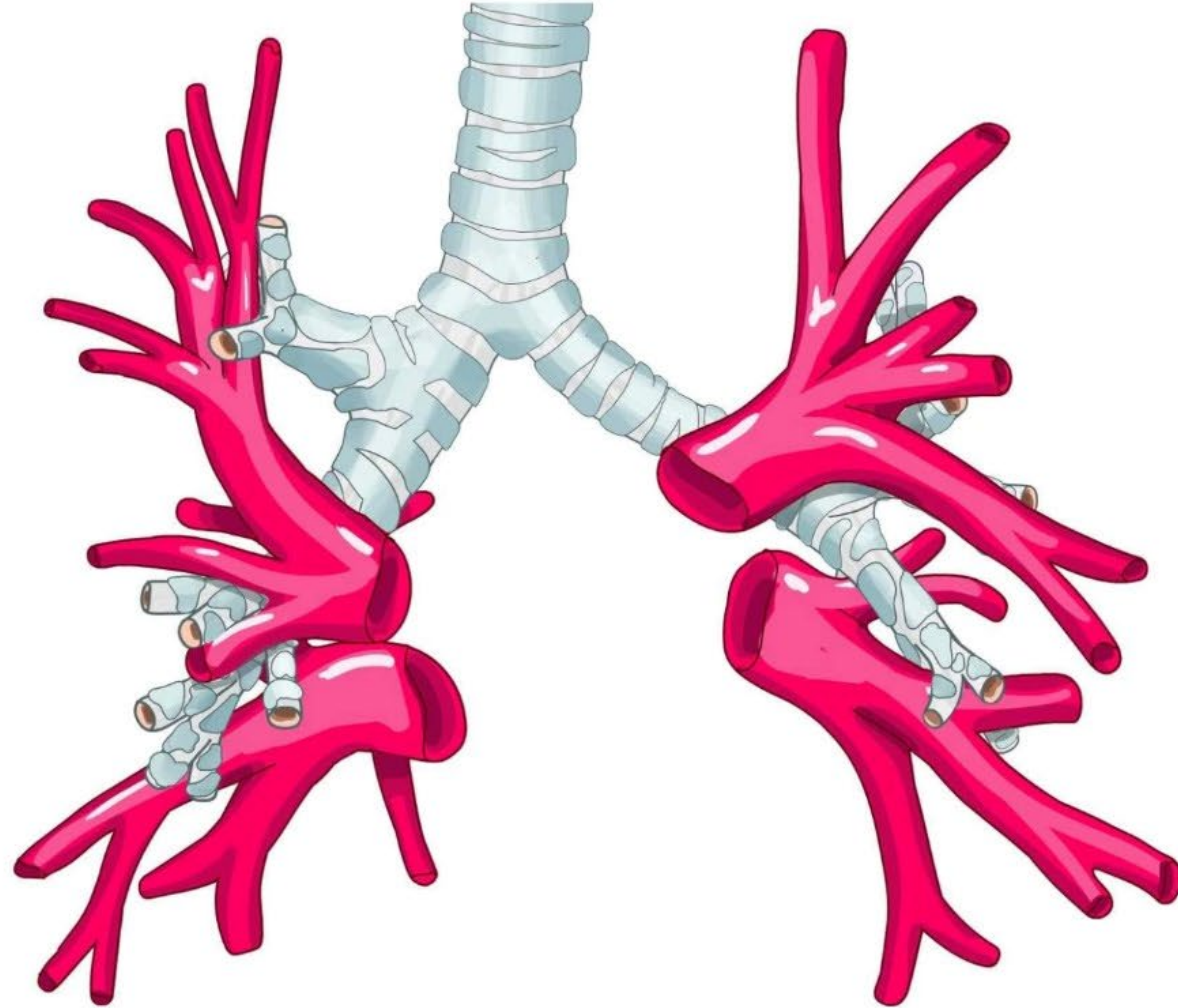


Cavities (Frontal cross section)

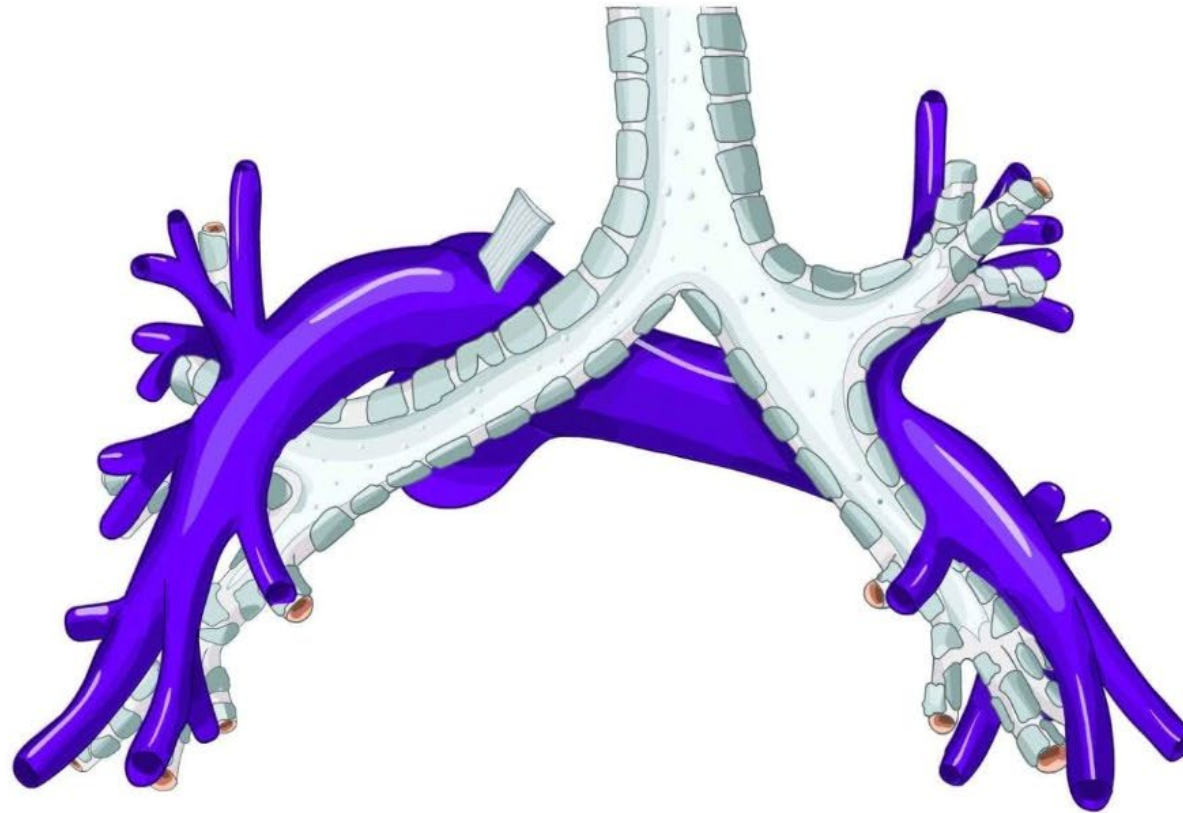


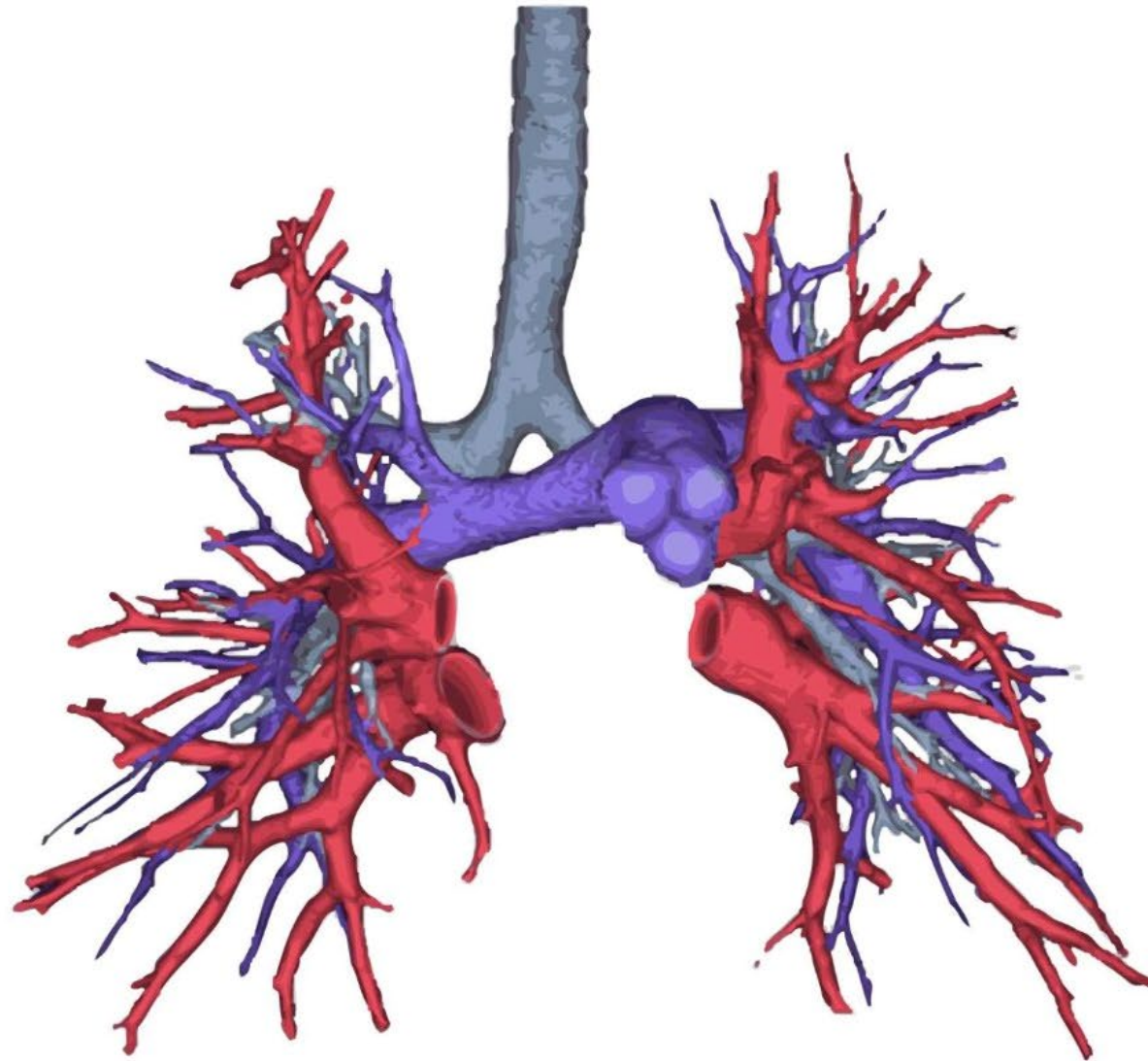
Illustrations : Dr. A. micheau

Pulmonary veins (Anterior view)

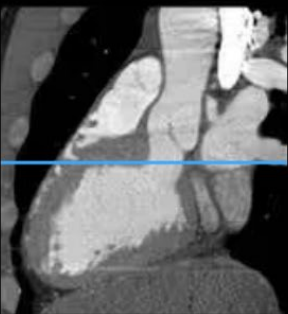


Pulmonary arteries (Posterior view)

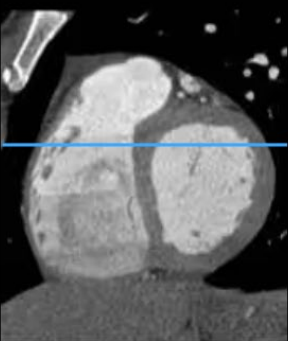




VERTICAL LONG AXIS



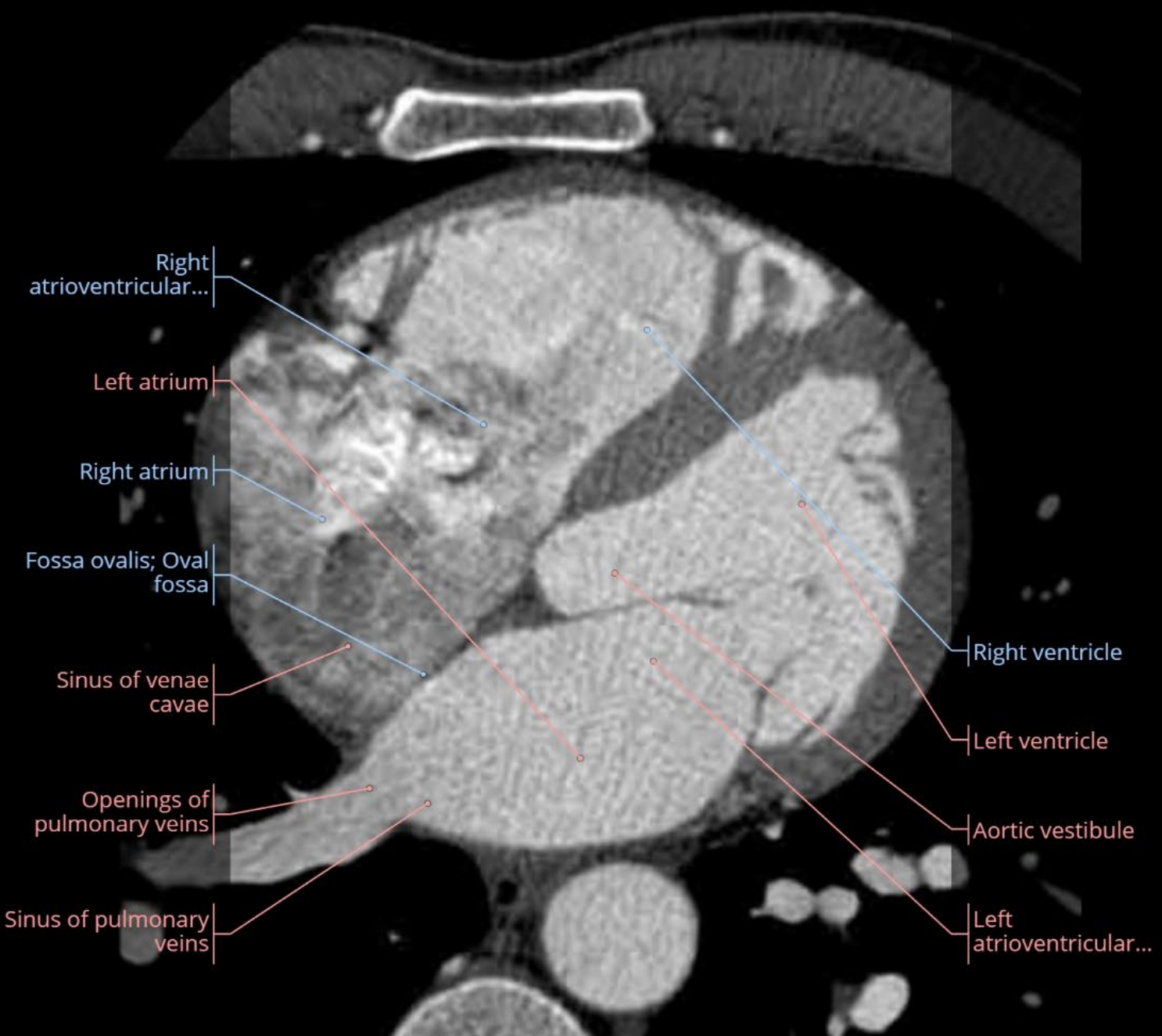
SHORT AXIS



3D



Heart - CT (Axial)

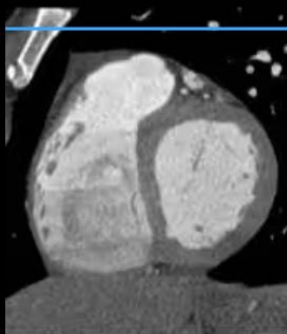




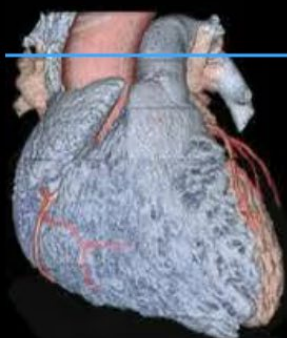
VERTICAL LONG AXIS



SHORT AXIS



3D



Heart - CT (Axial)

Ascending Aorta

Superior vena cava

Main pulmonary artery

Left pulmonary artery

Right pulmonary artery

Descending Aorta

SAGITTAL

Thorax - CT (Axial cross section)



CORONAL

VR

Sternum

Pectoralis

Ribs

Scapula

Trapezius

Abdomen and Pelvis









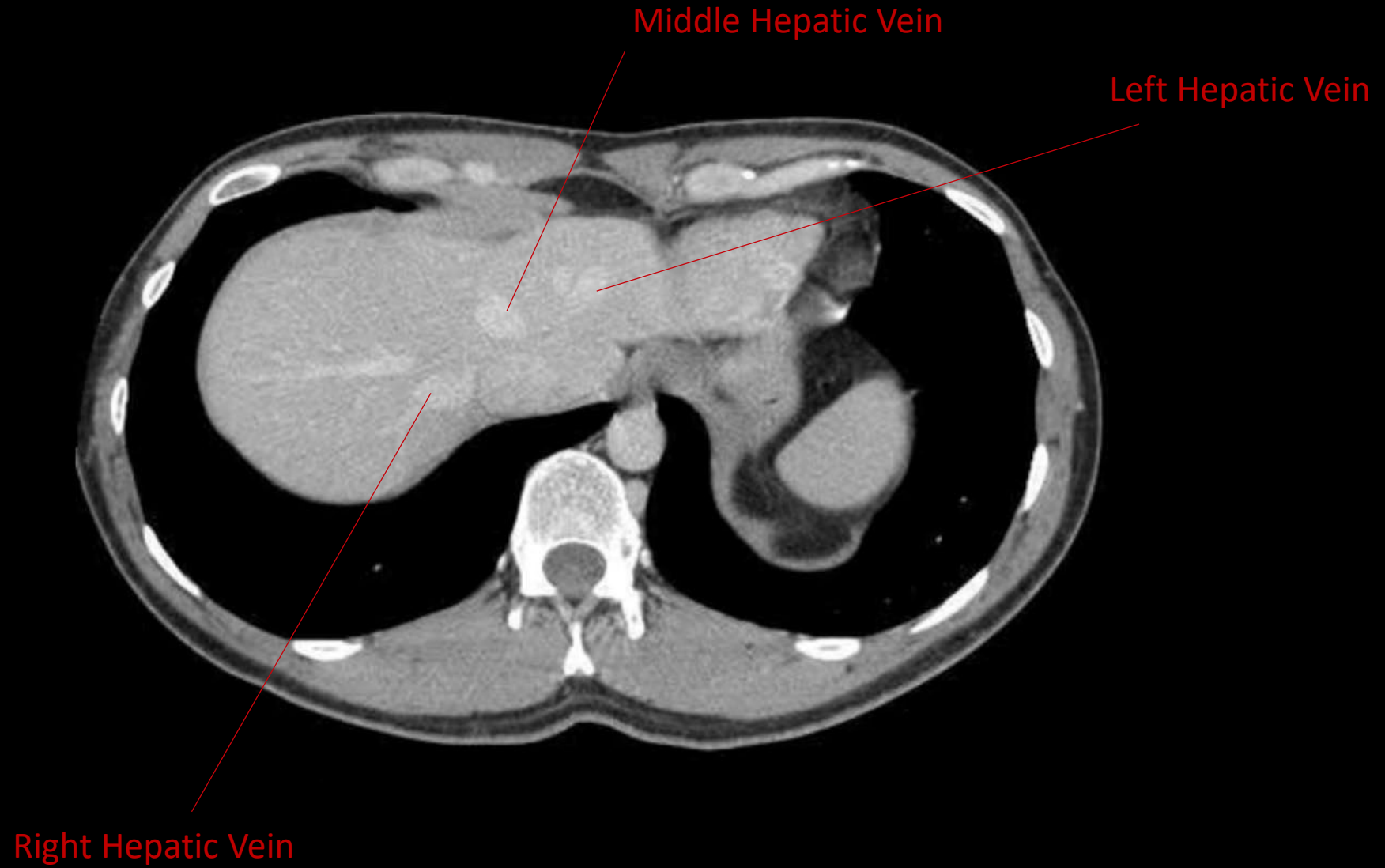






Esophagus

















Celiac artery



Adrenal Glands

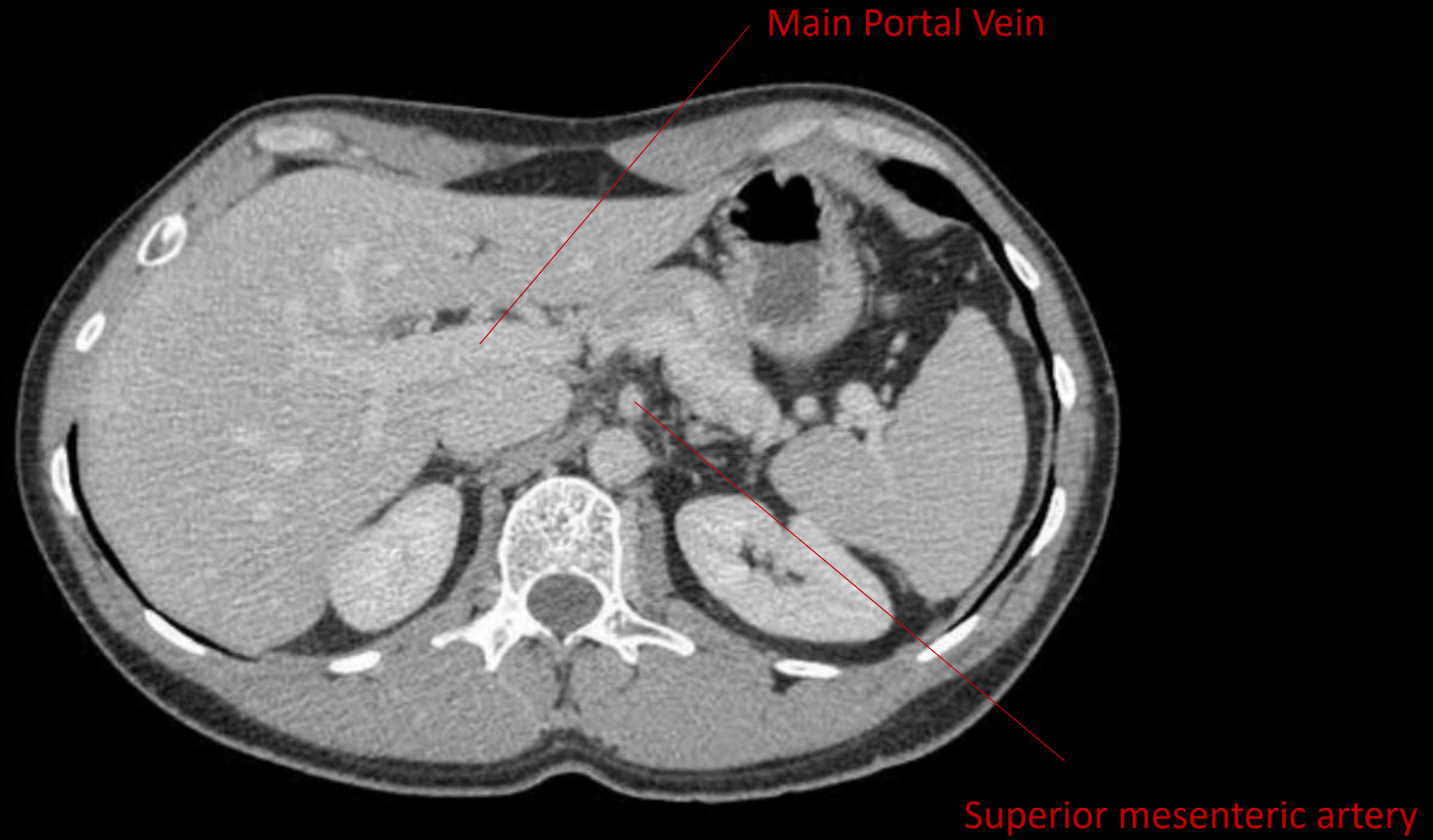


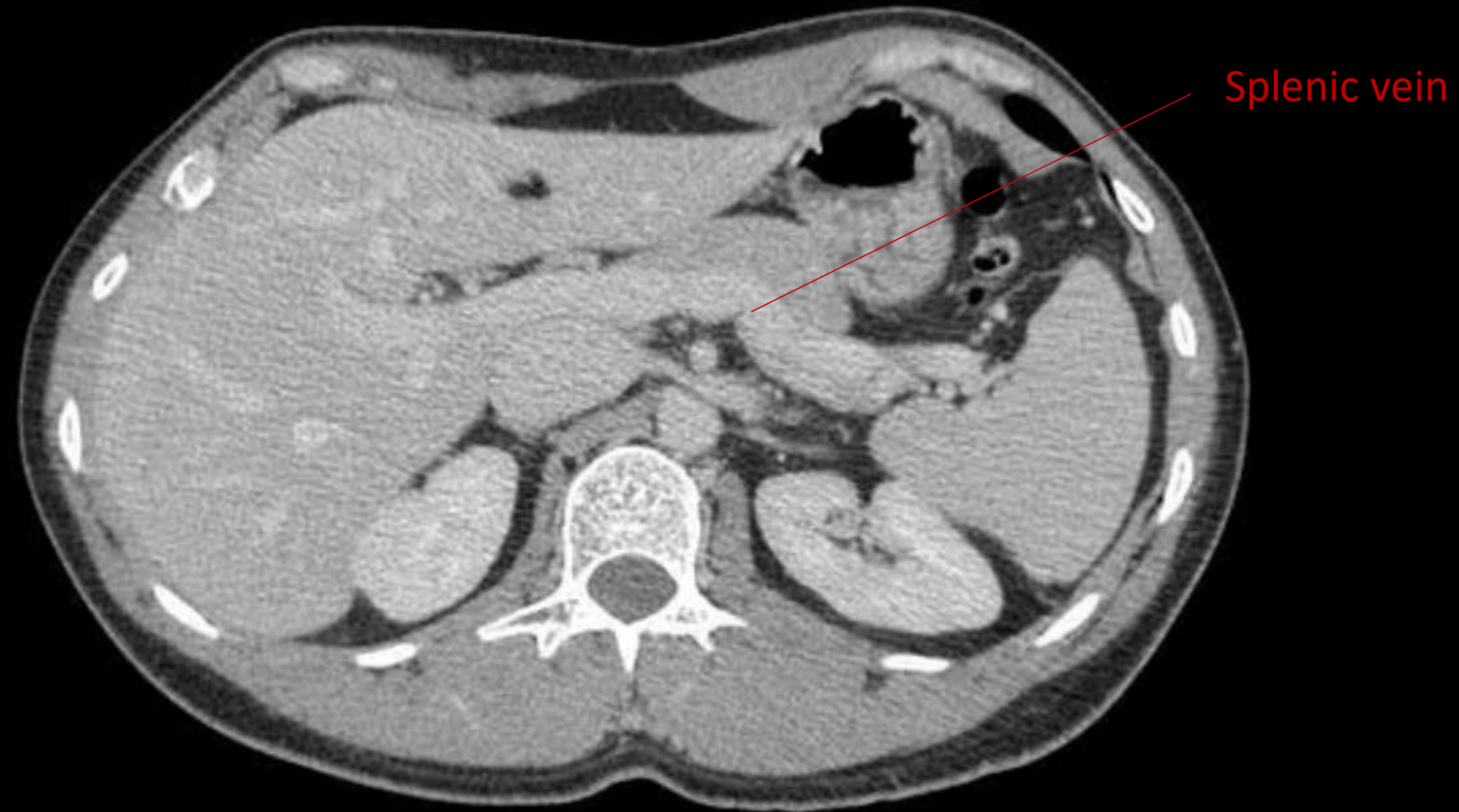
Liver



Spleen











Extrahepatic biliary duct

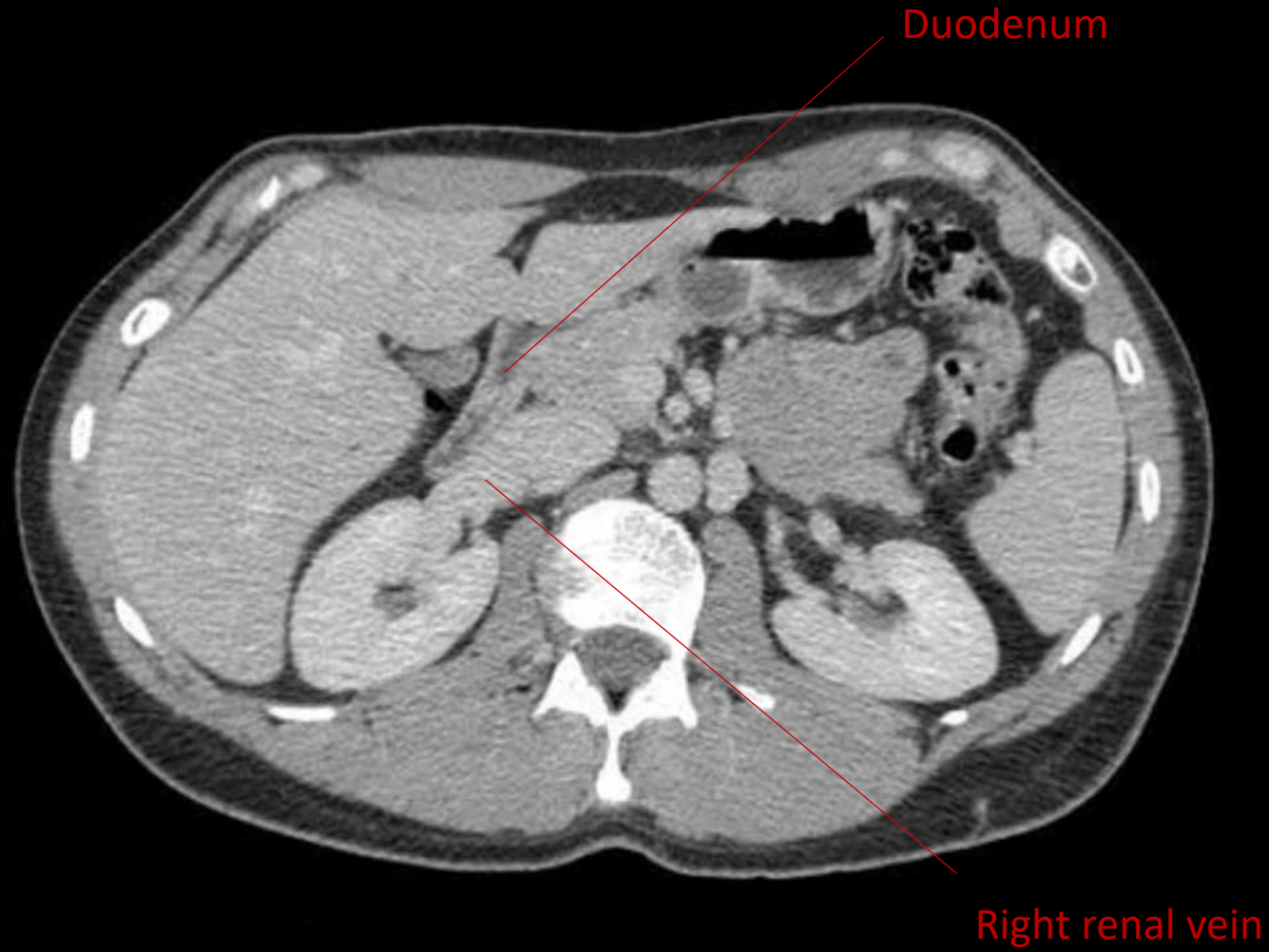


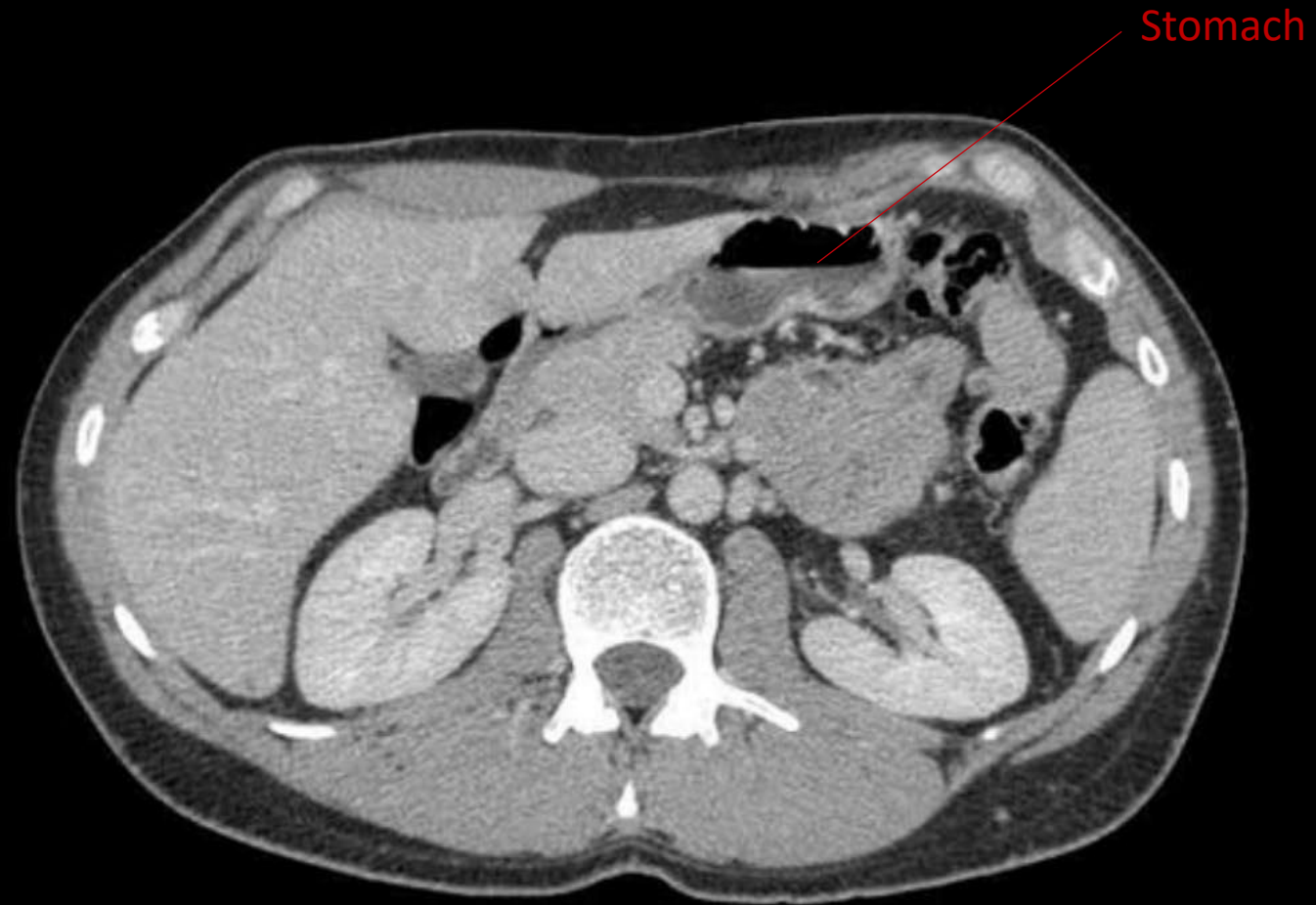
Left renal vein



Right Kidney

Left kidney



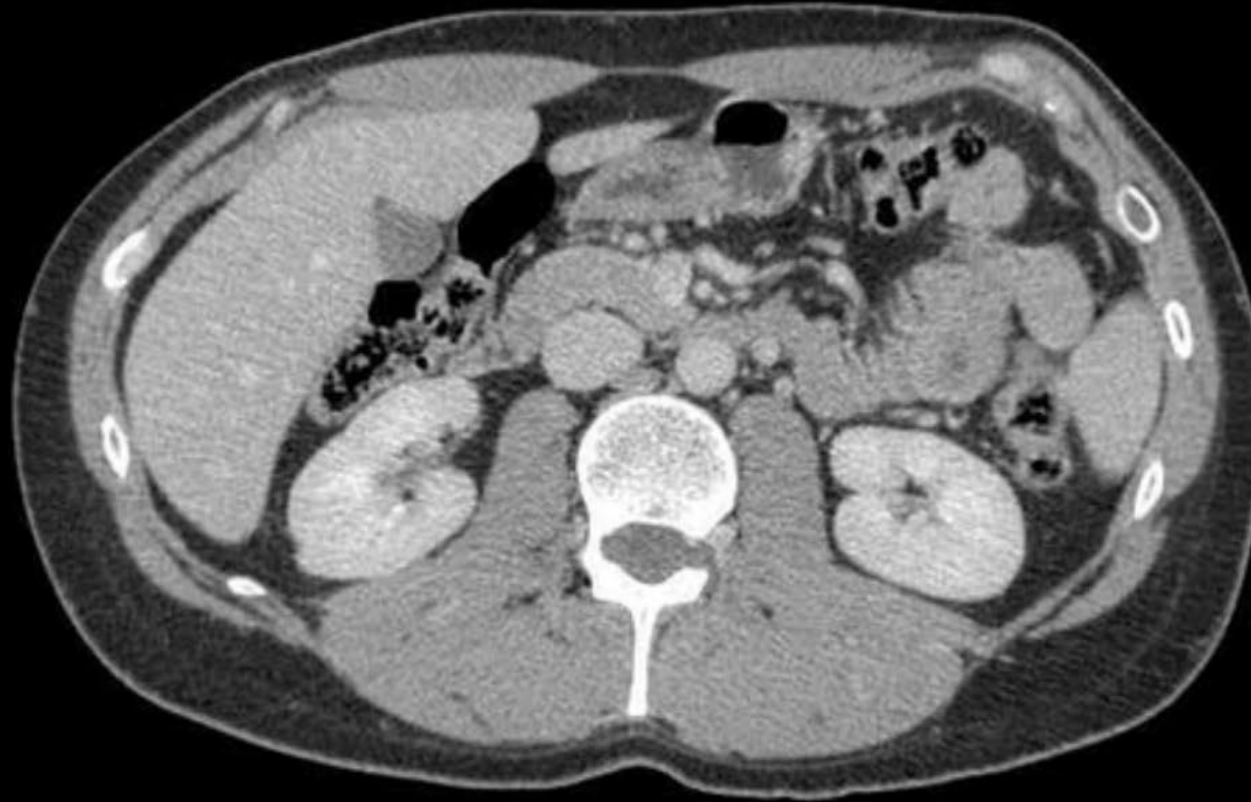


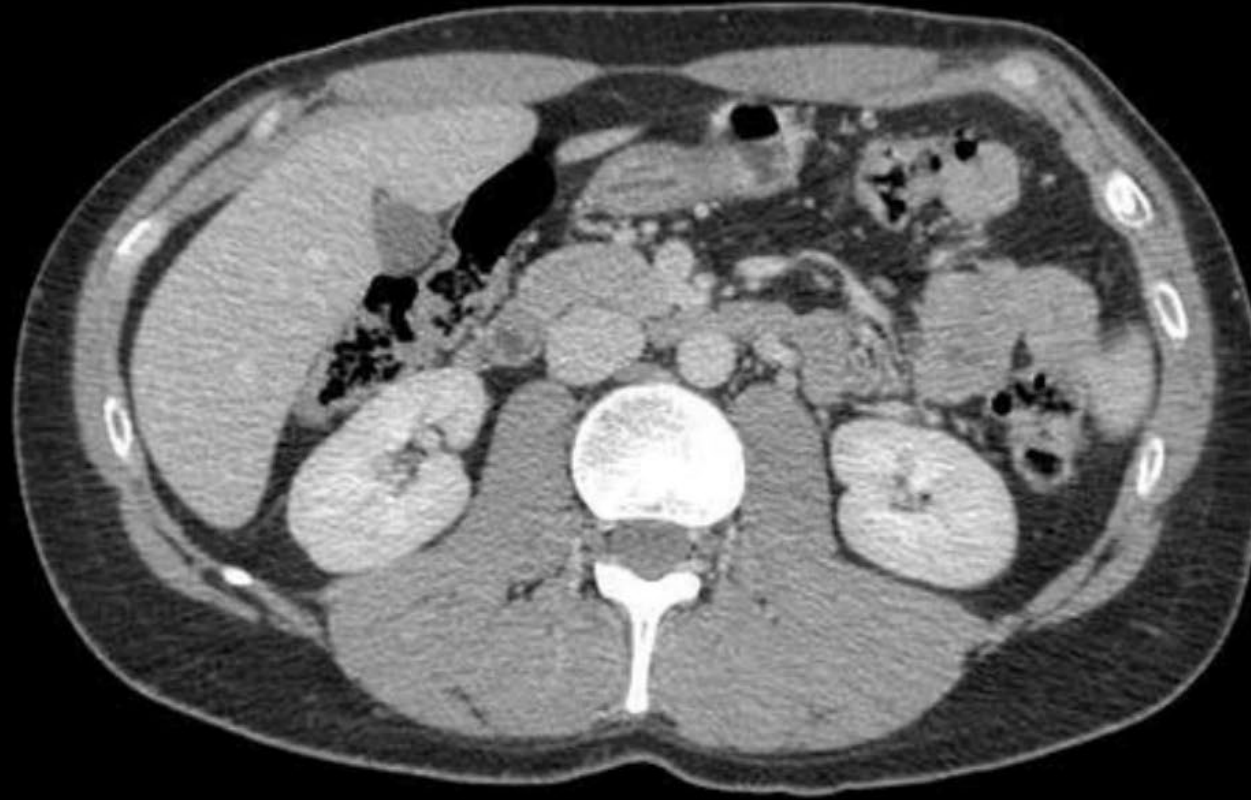


Superior mesenteric vein











Inferior vena cava

Abdominal aorta



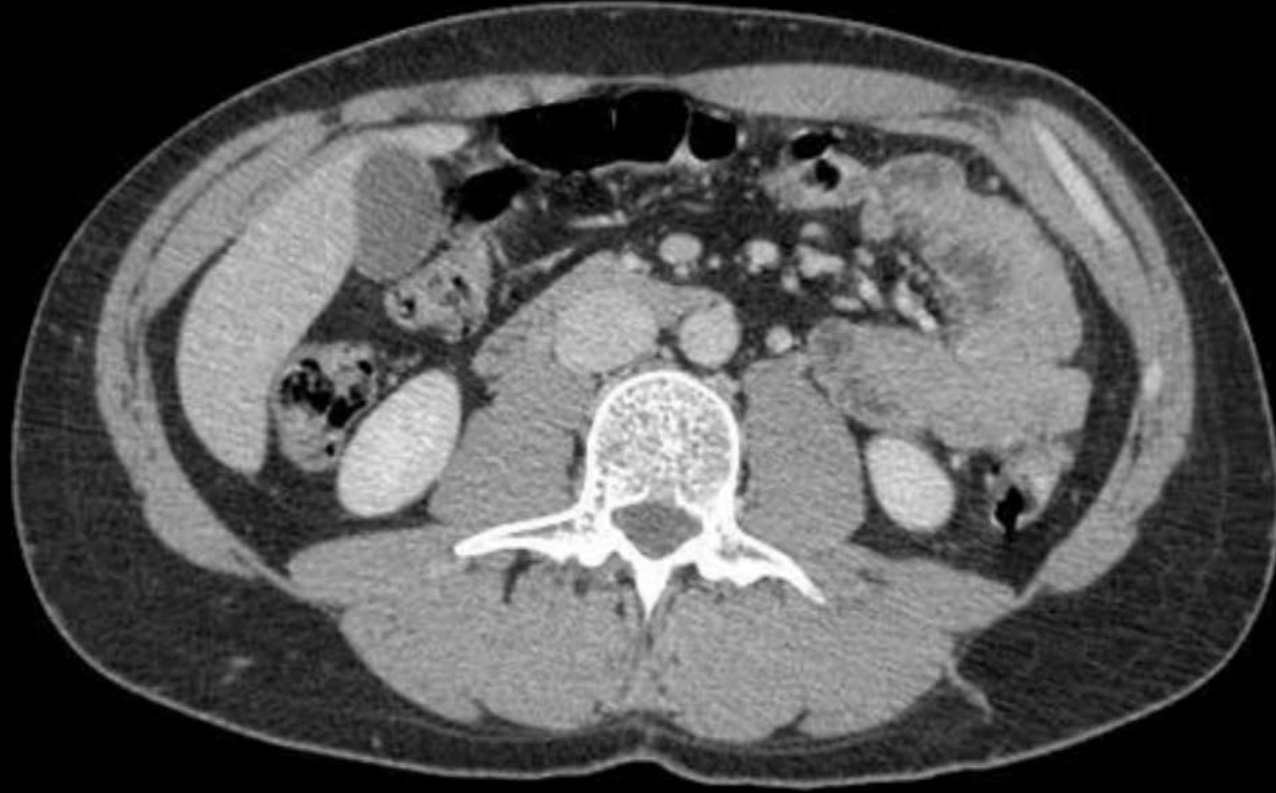


Right ureter

Gallbladder











Jejunum

Inferior mesenteric artery

Transverse colon











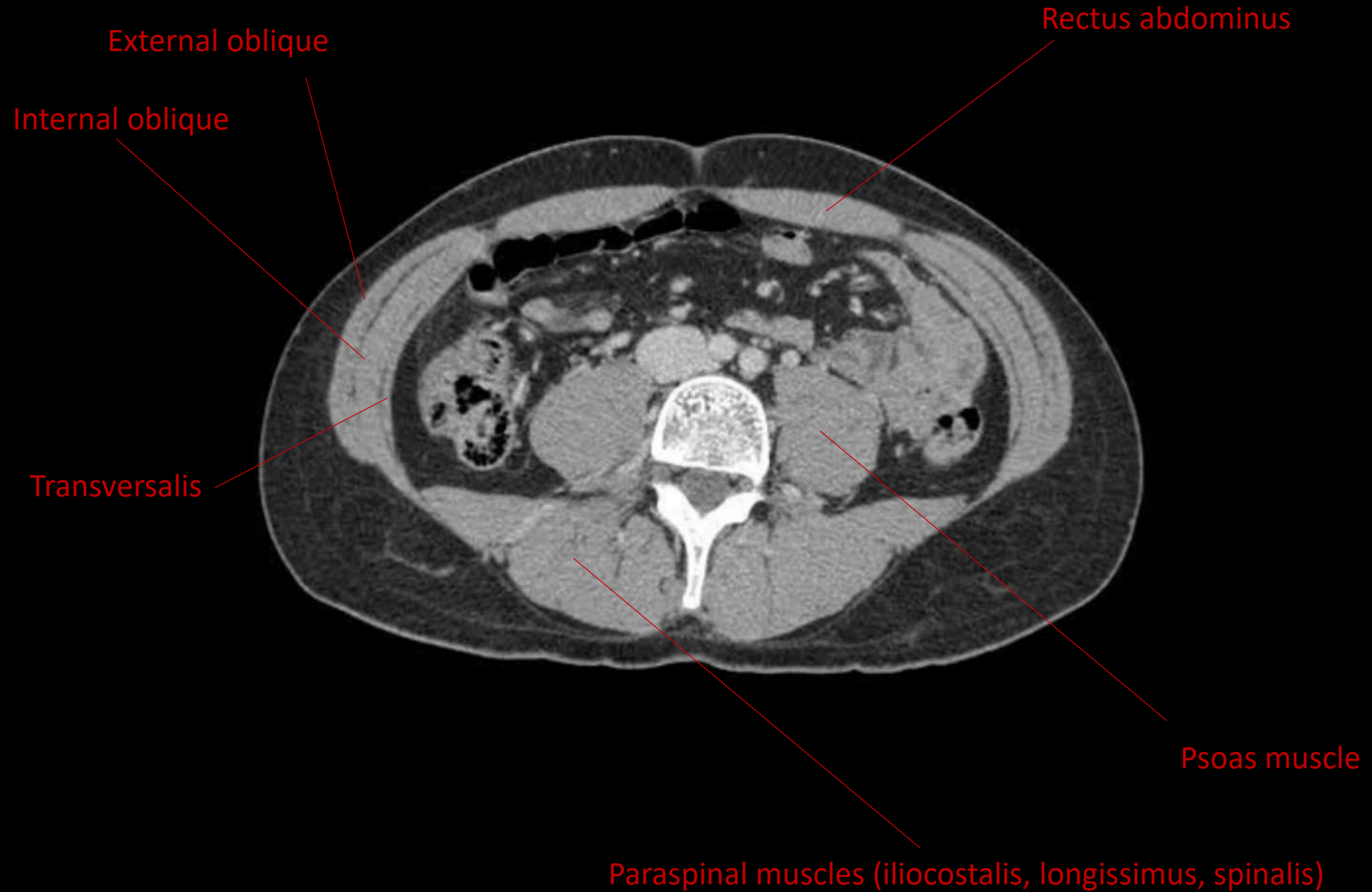
Ascending colon

Descending colon

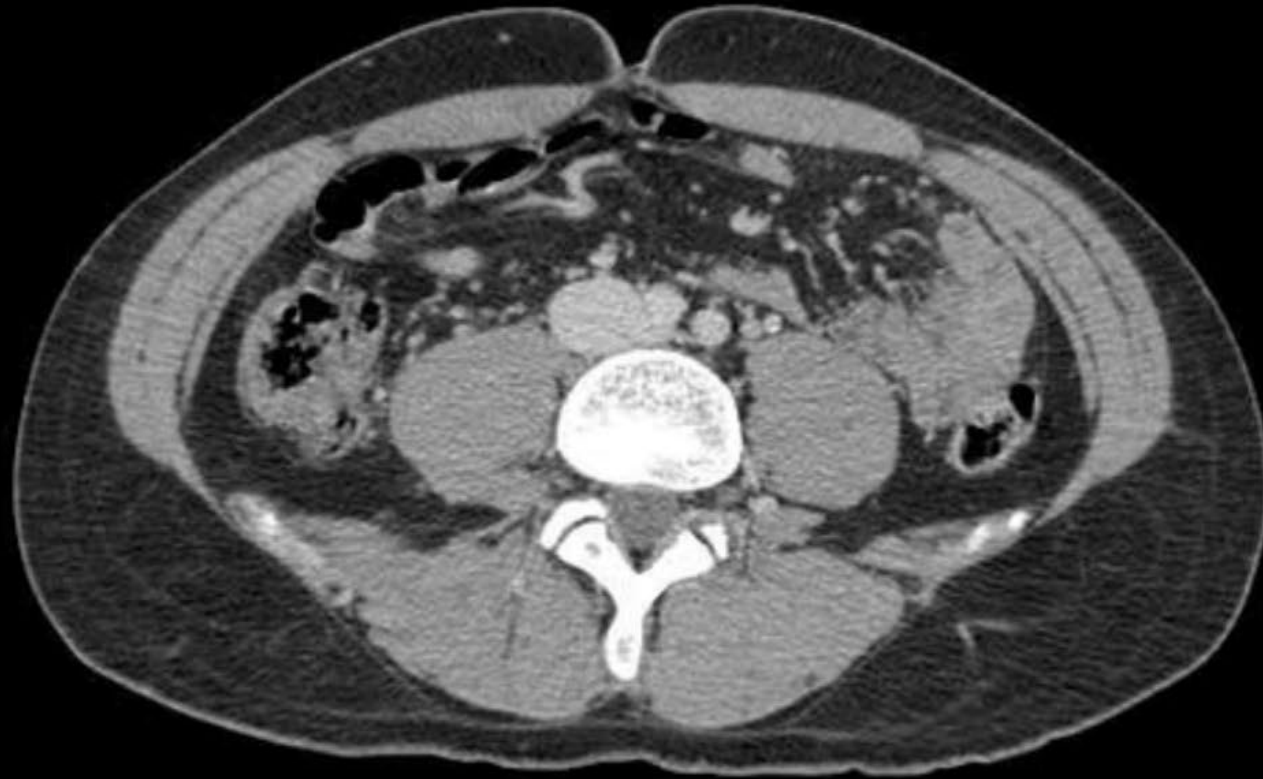


Vertebral body



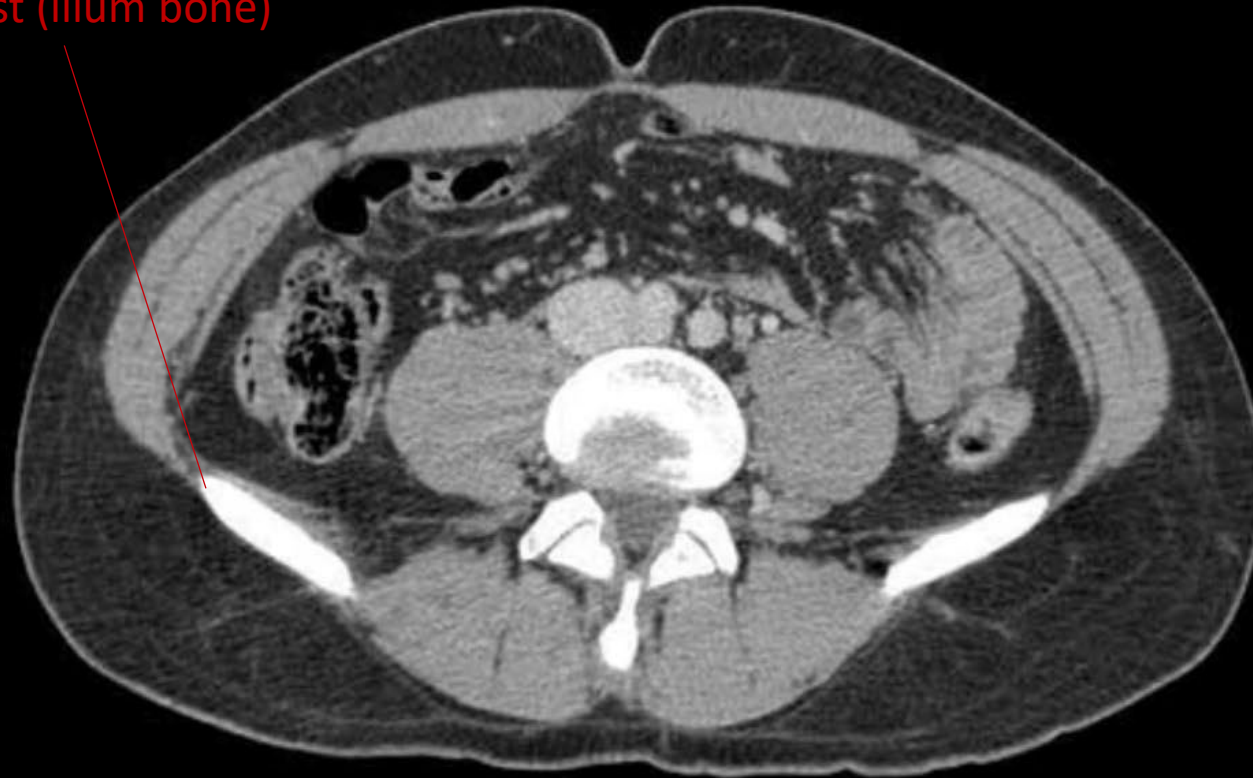








Iliac crest (ilium bone)



















Right common iliac artery



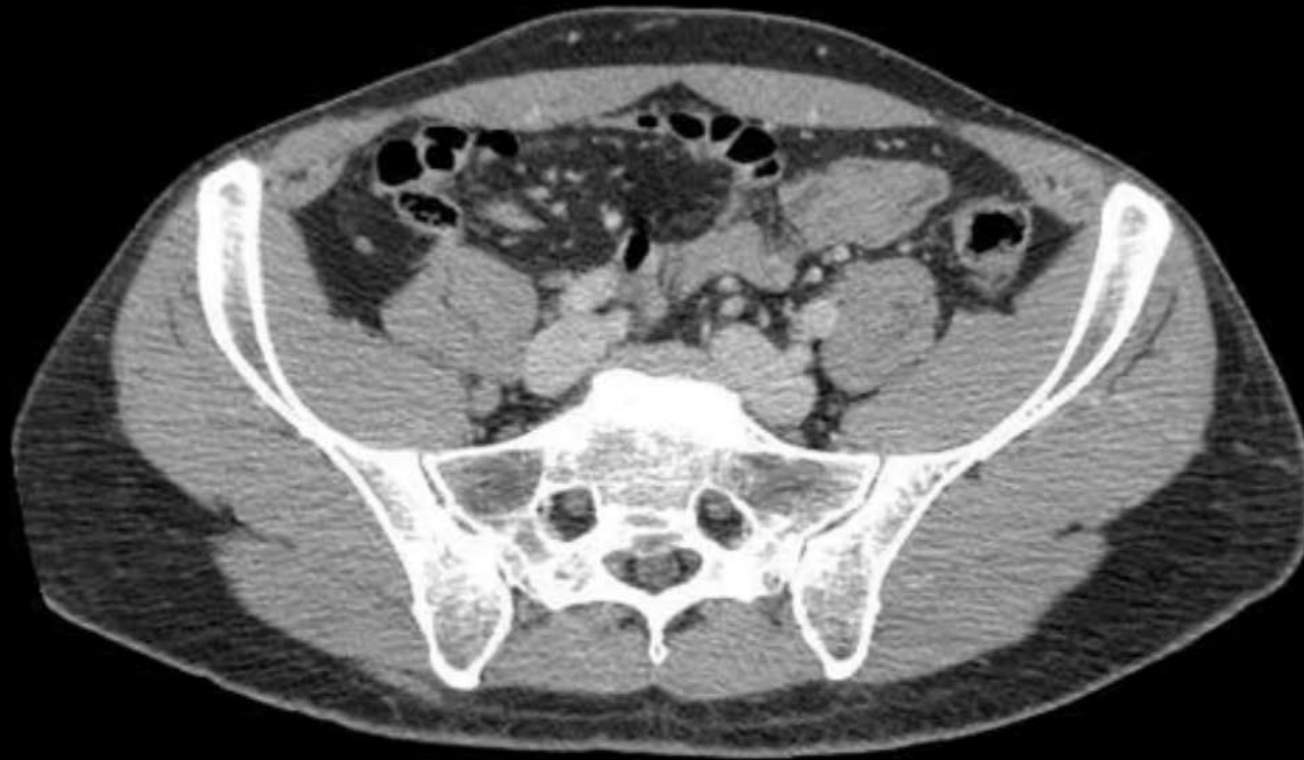
Left common iliac vein

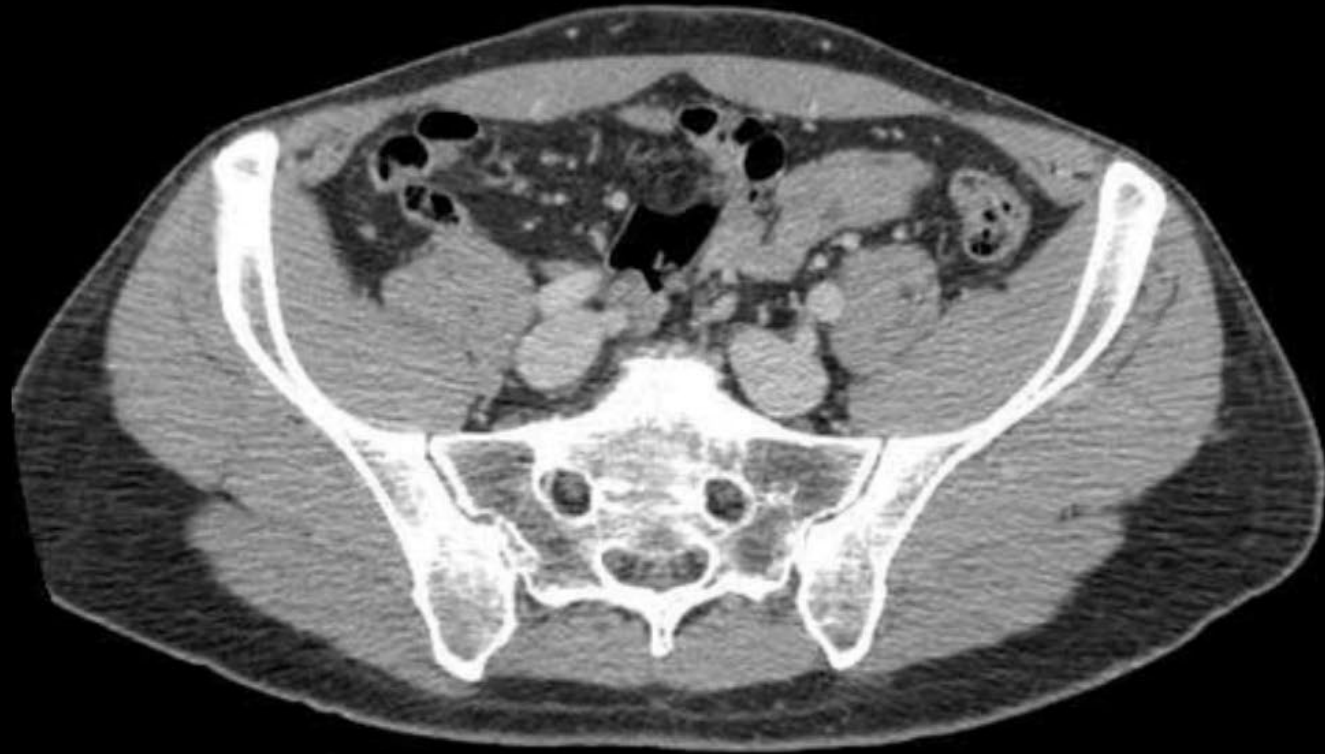


Appendix



















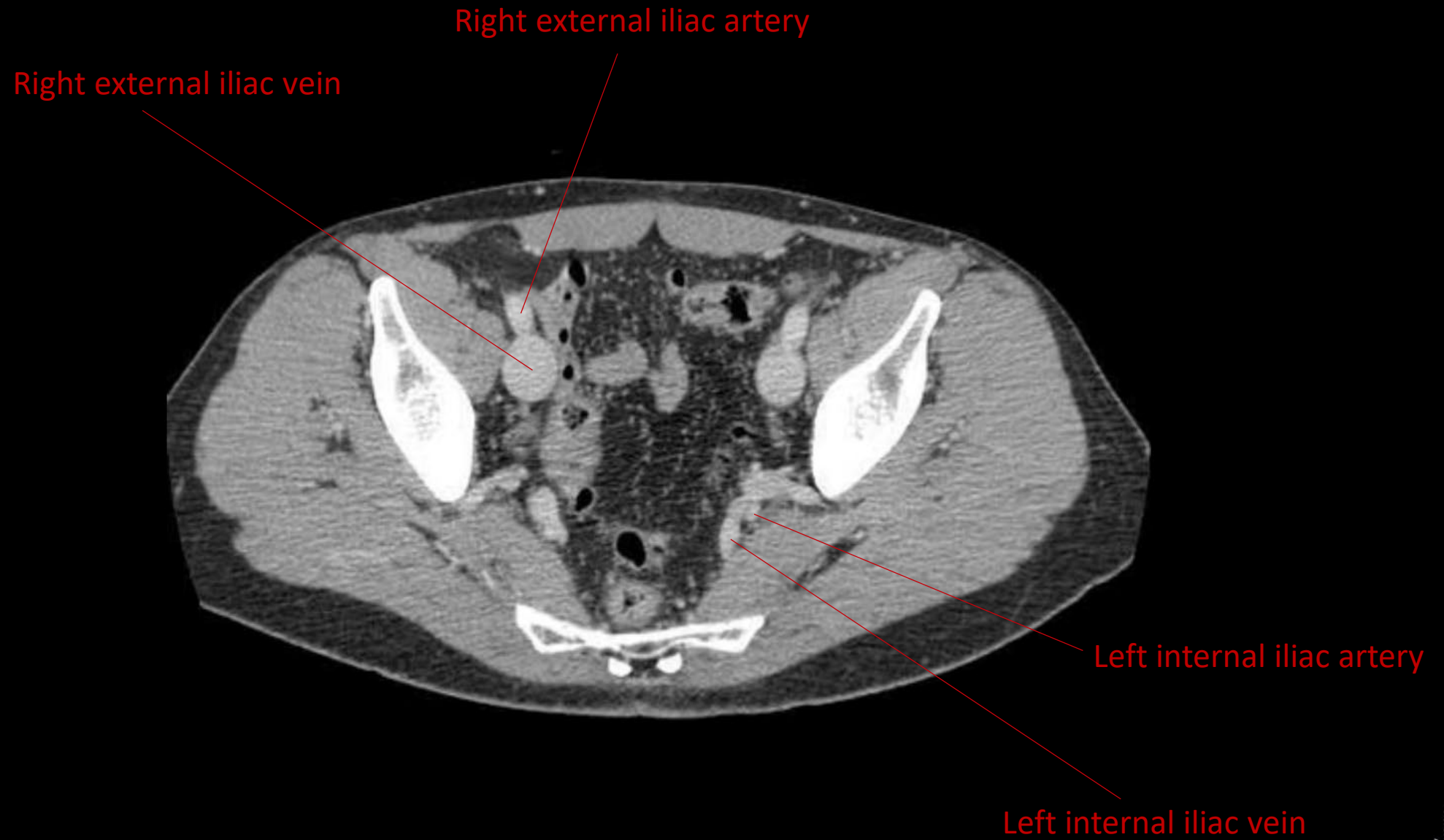






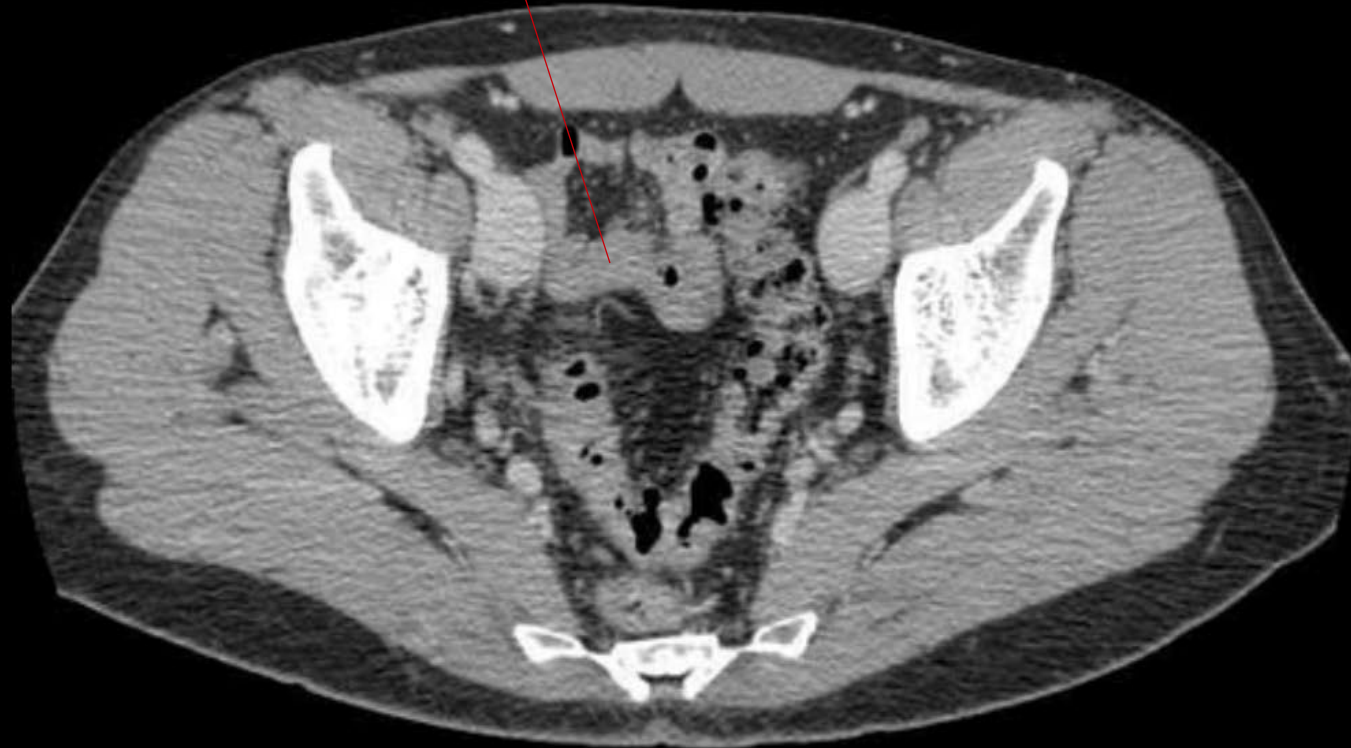


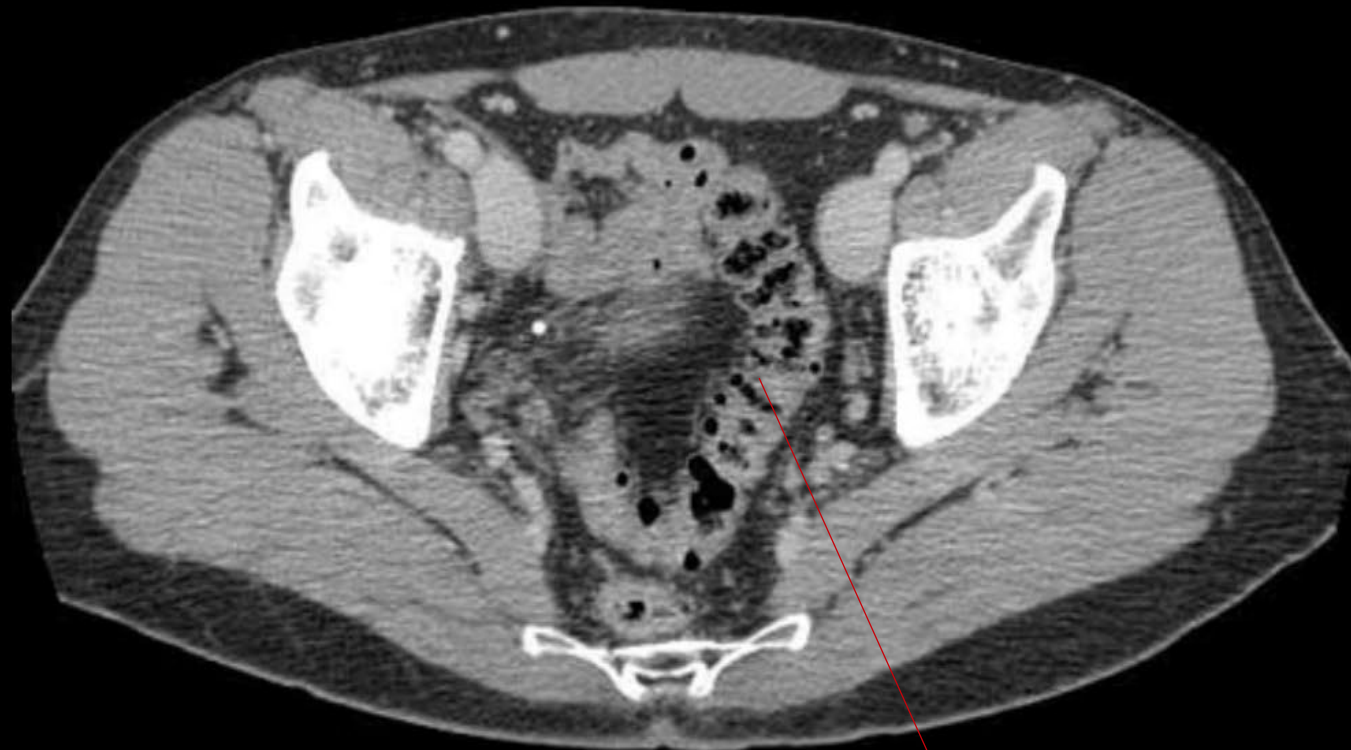






Ileum





Sigmoid colon





Gluteus maximus





Seminal Vesicles

Bladder





Rectum









Prostate



Femoral Head



Pubic symphysis



Femoral artery

Femoral vein





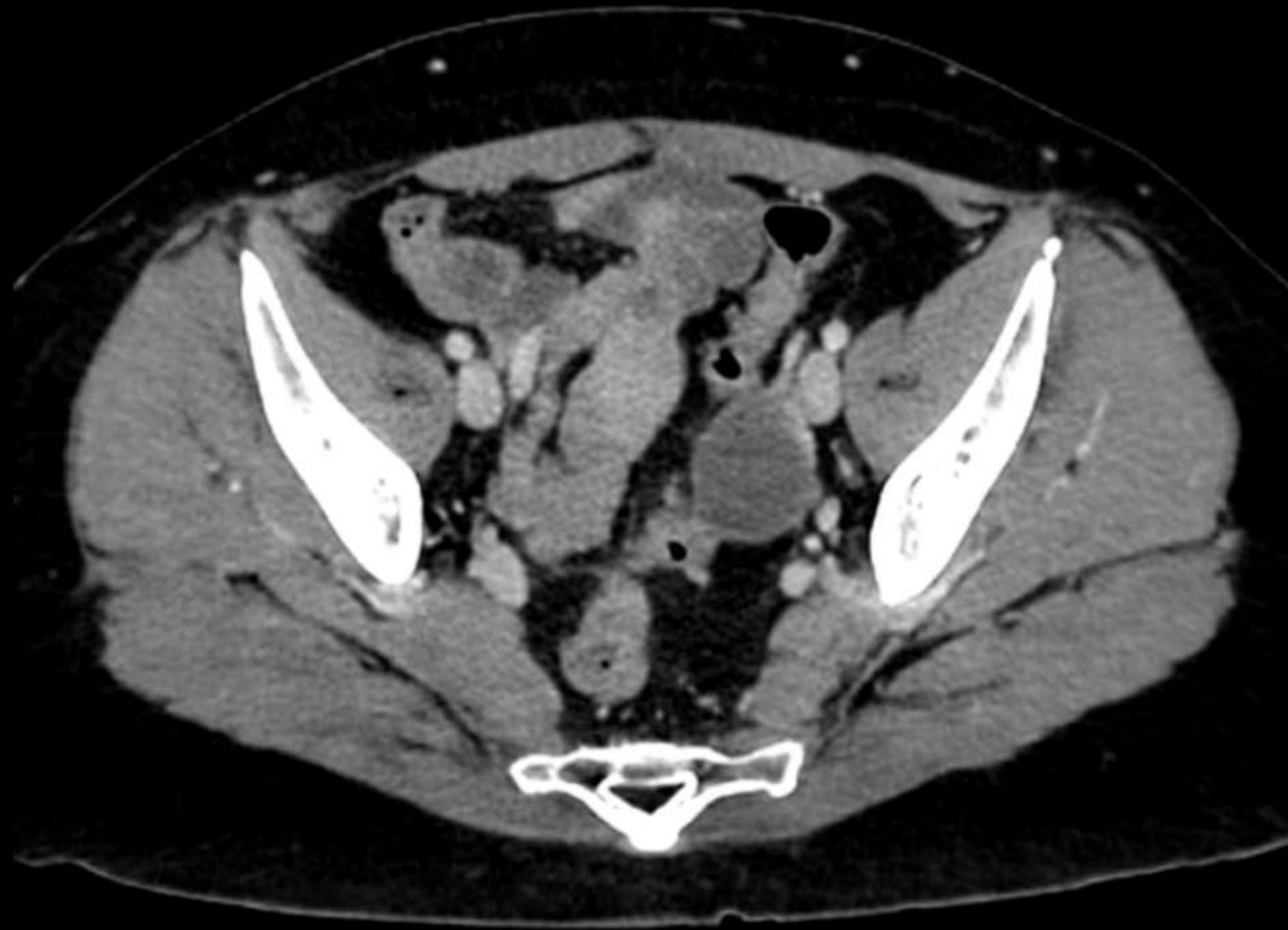






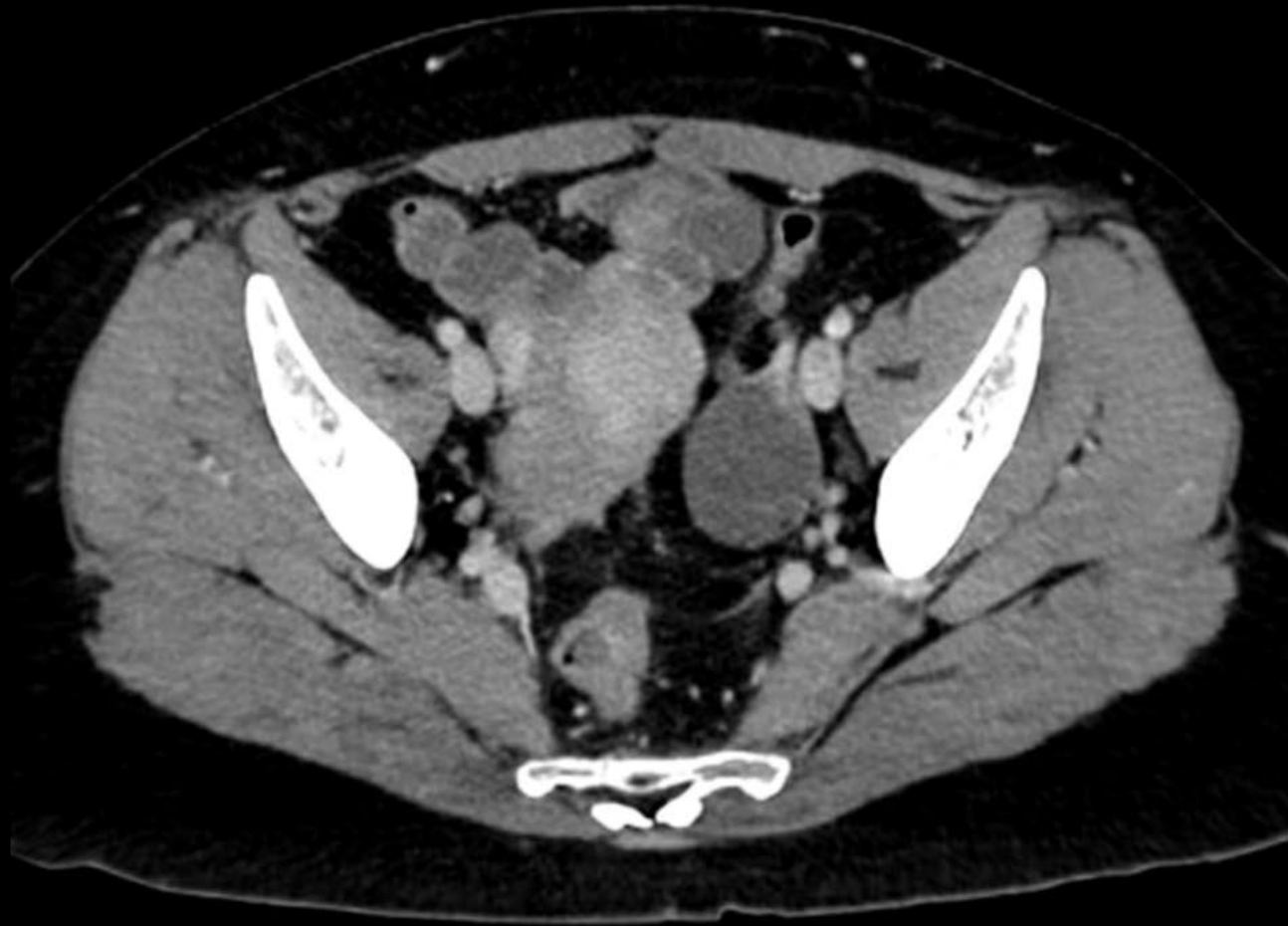
Female Pelvis

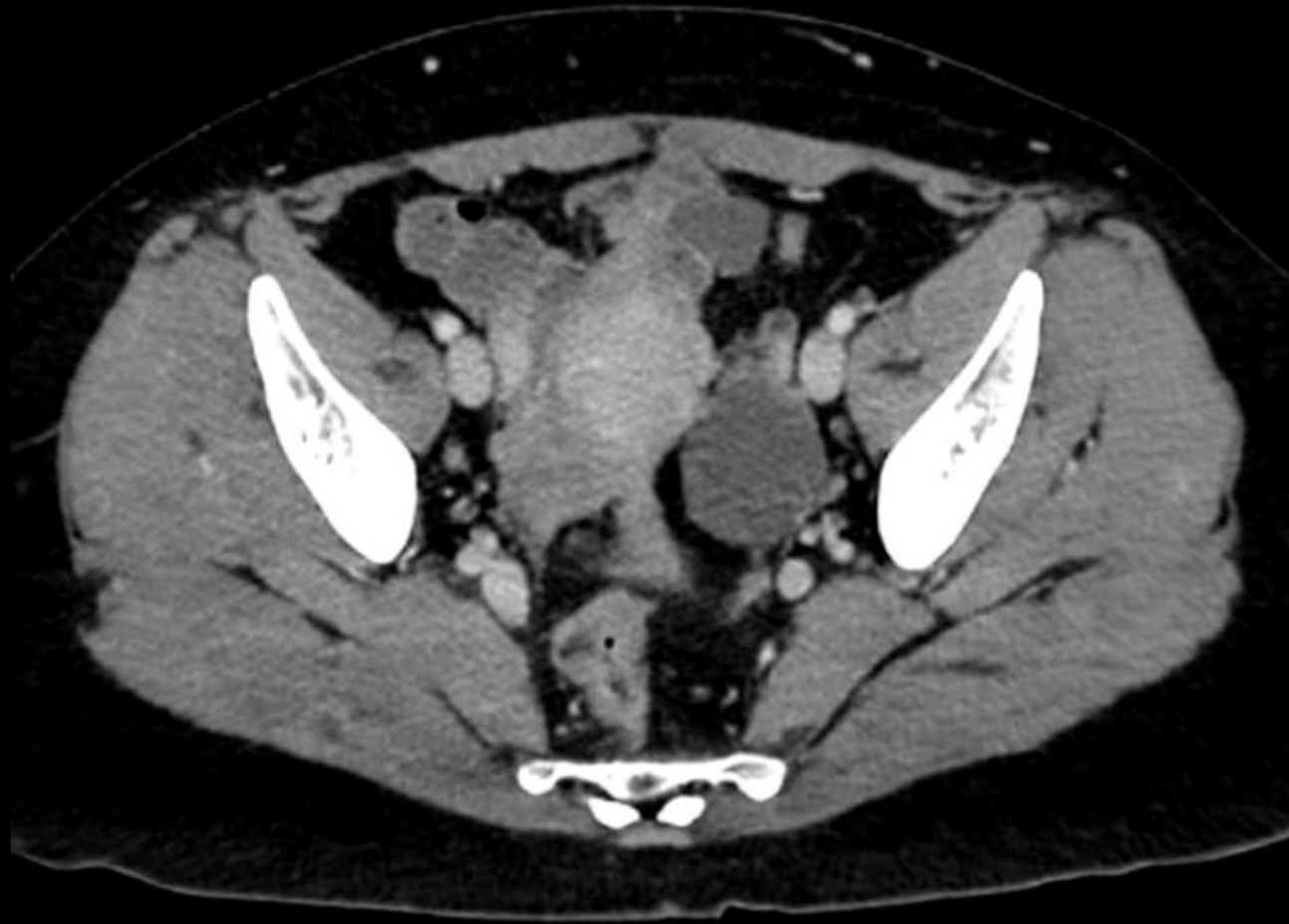


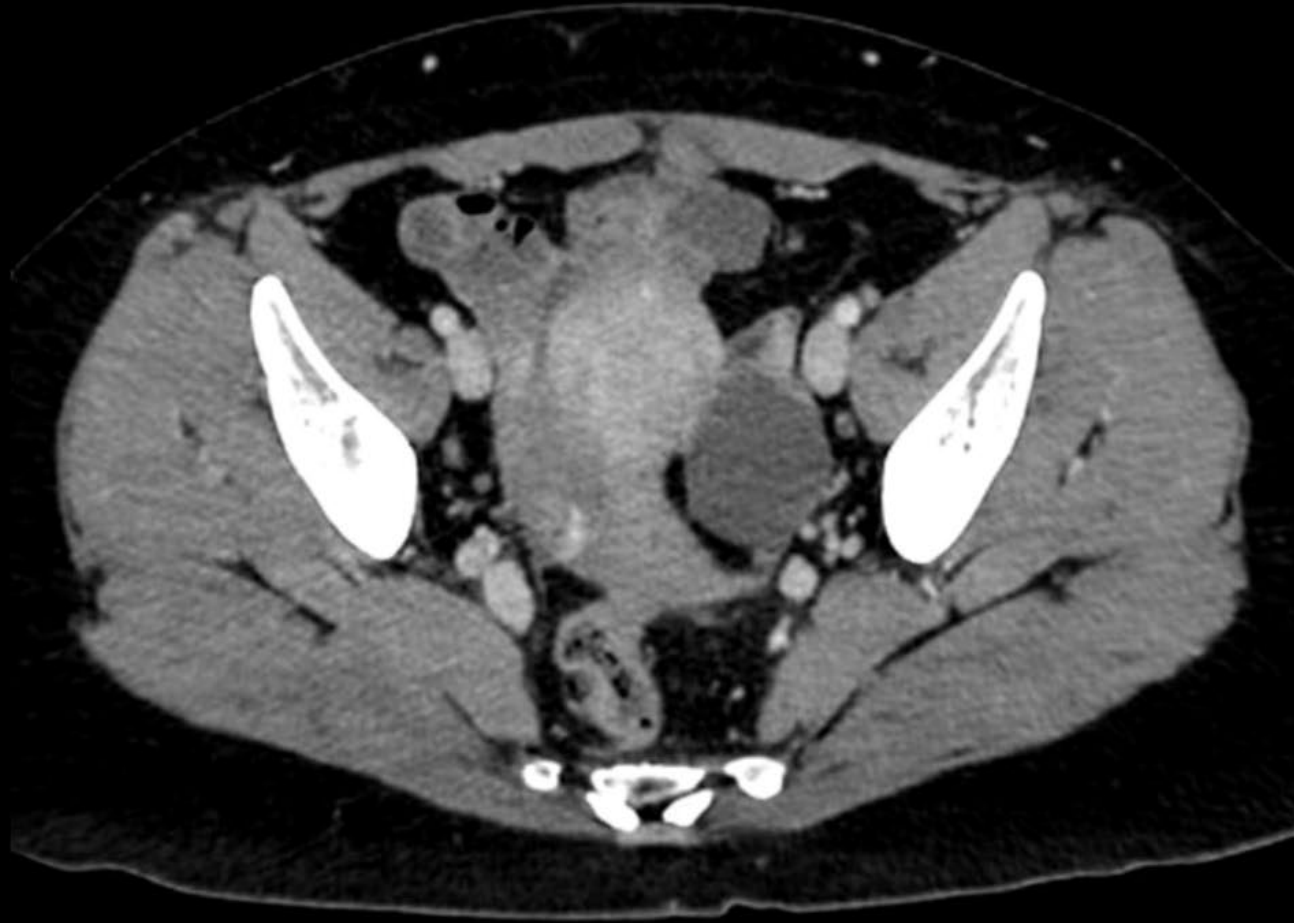




Left ovary with a simple cyst















Right ovary











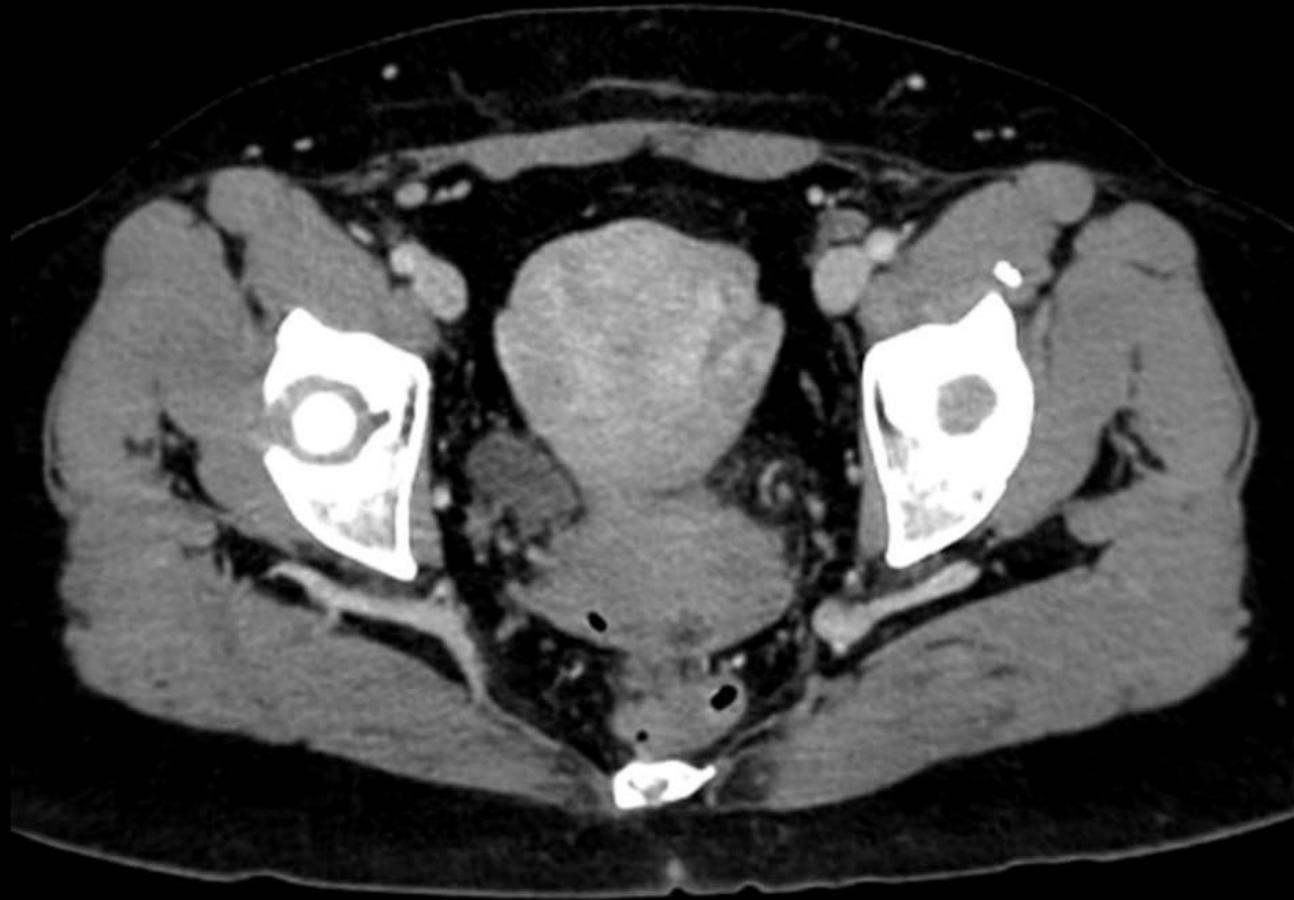


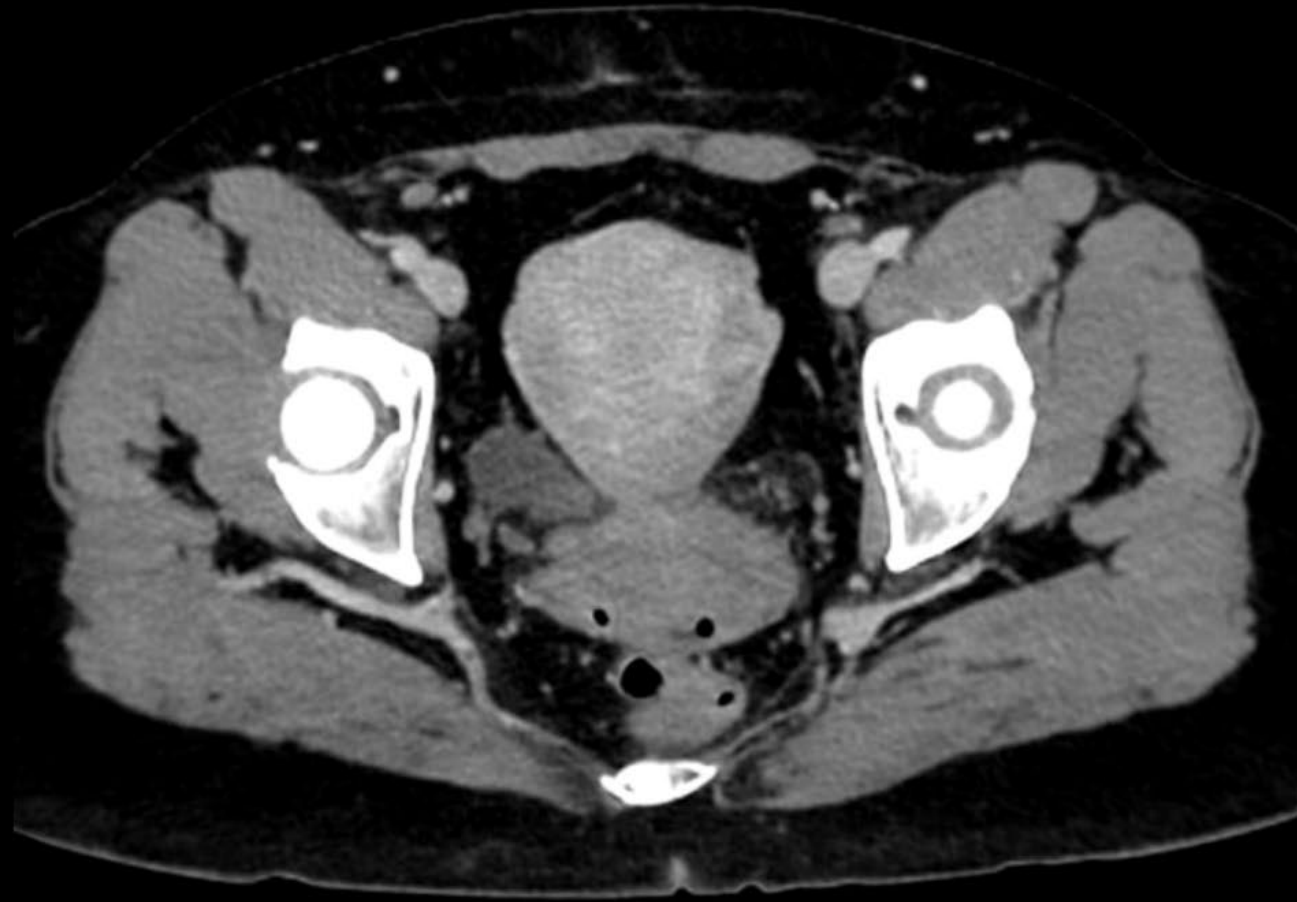
Uterus

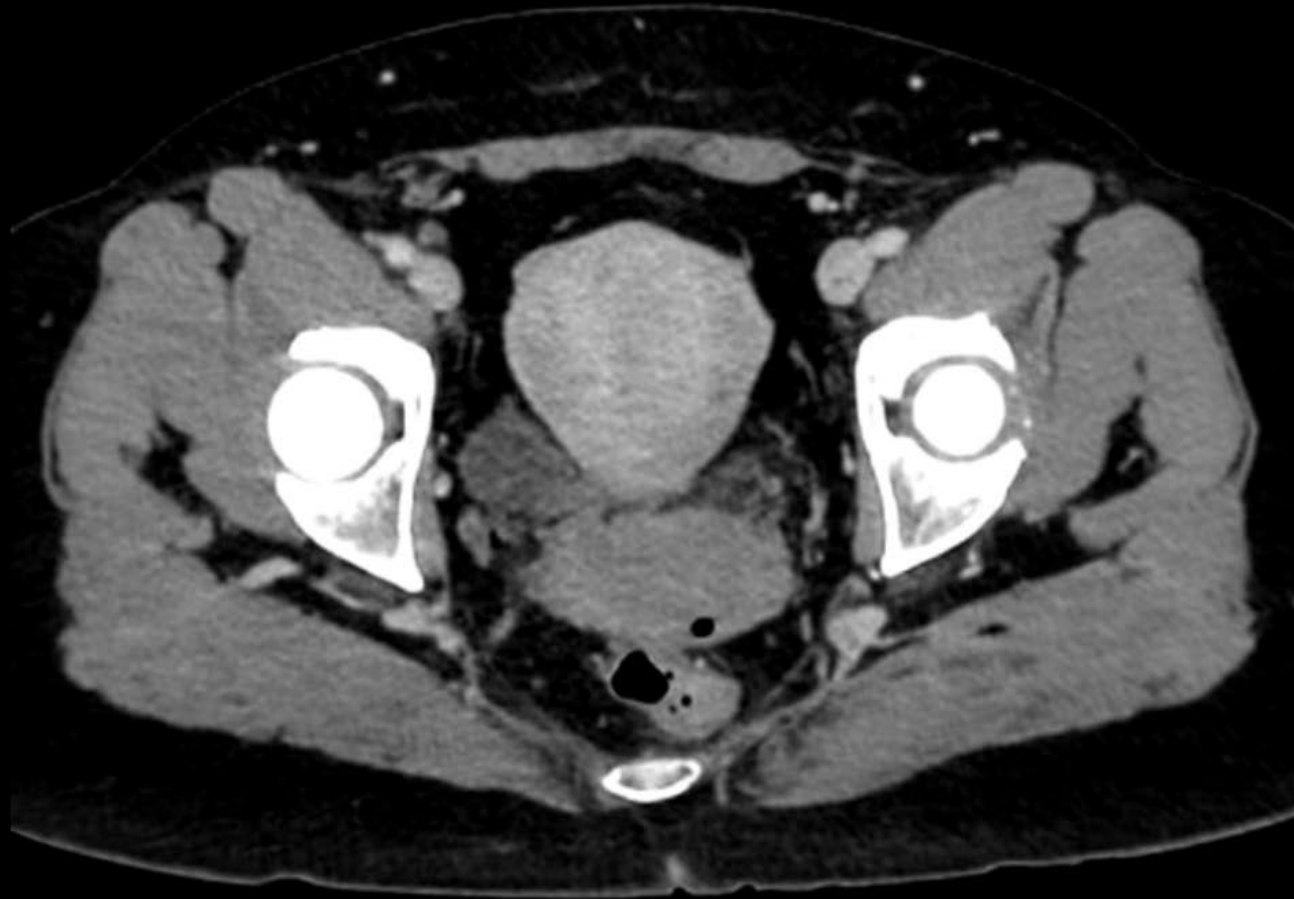




Cervix





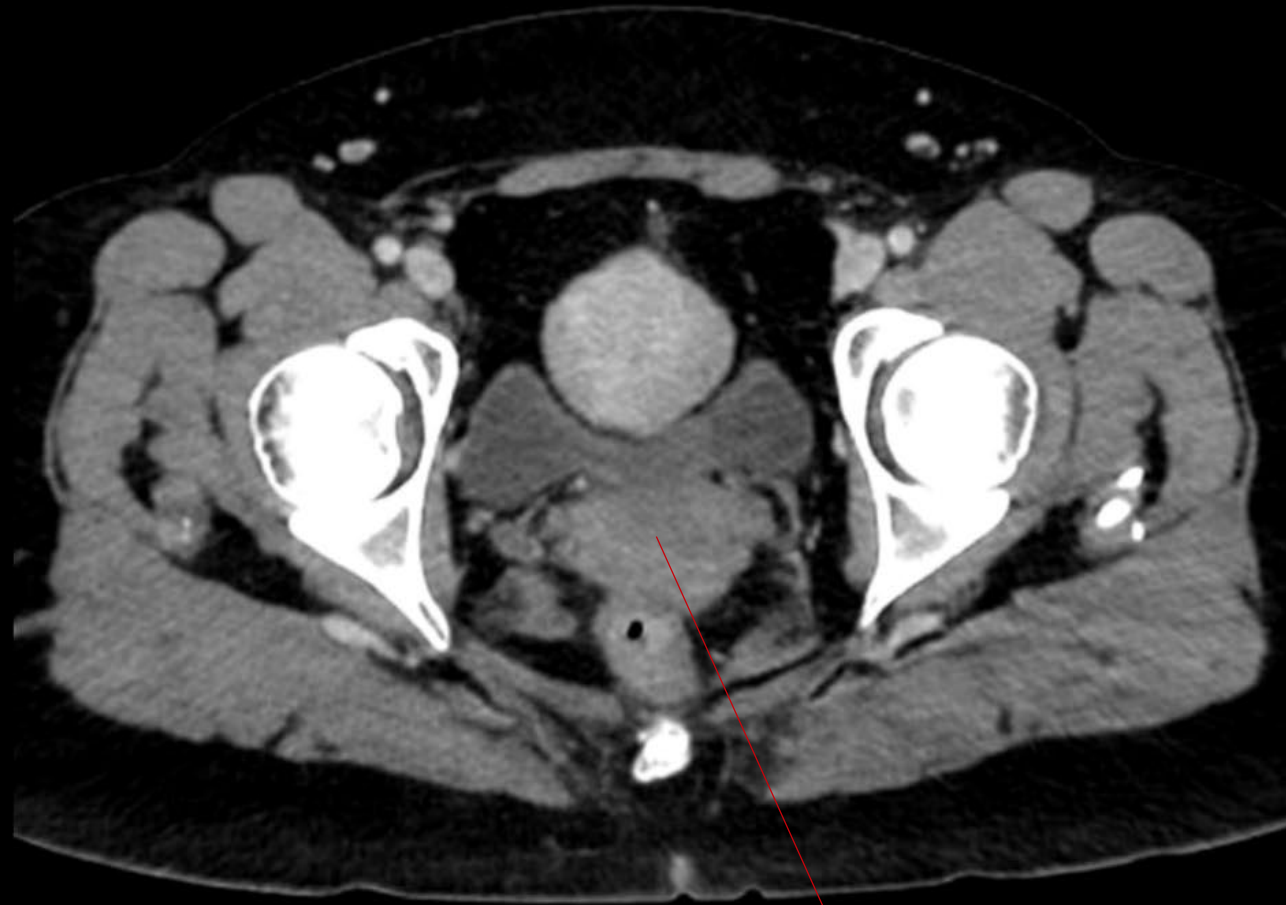












Vagina





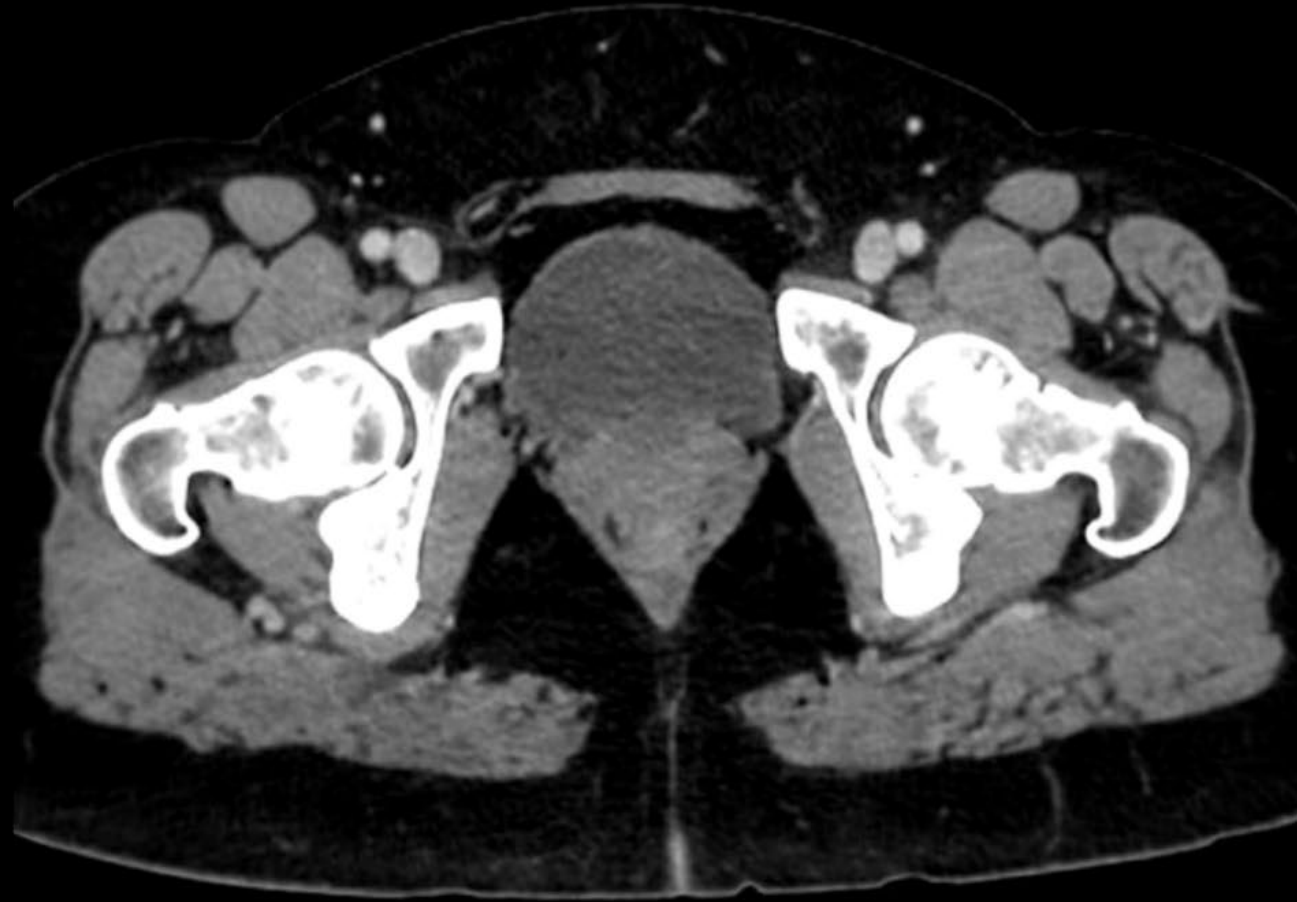






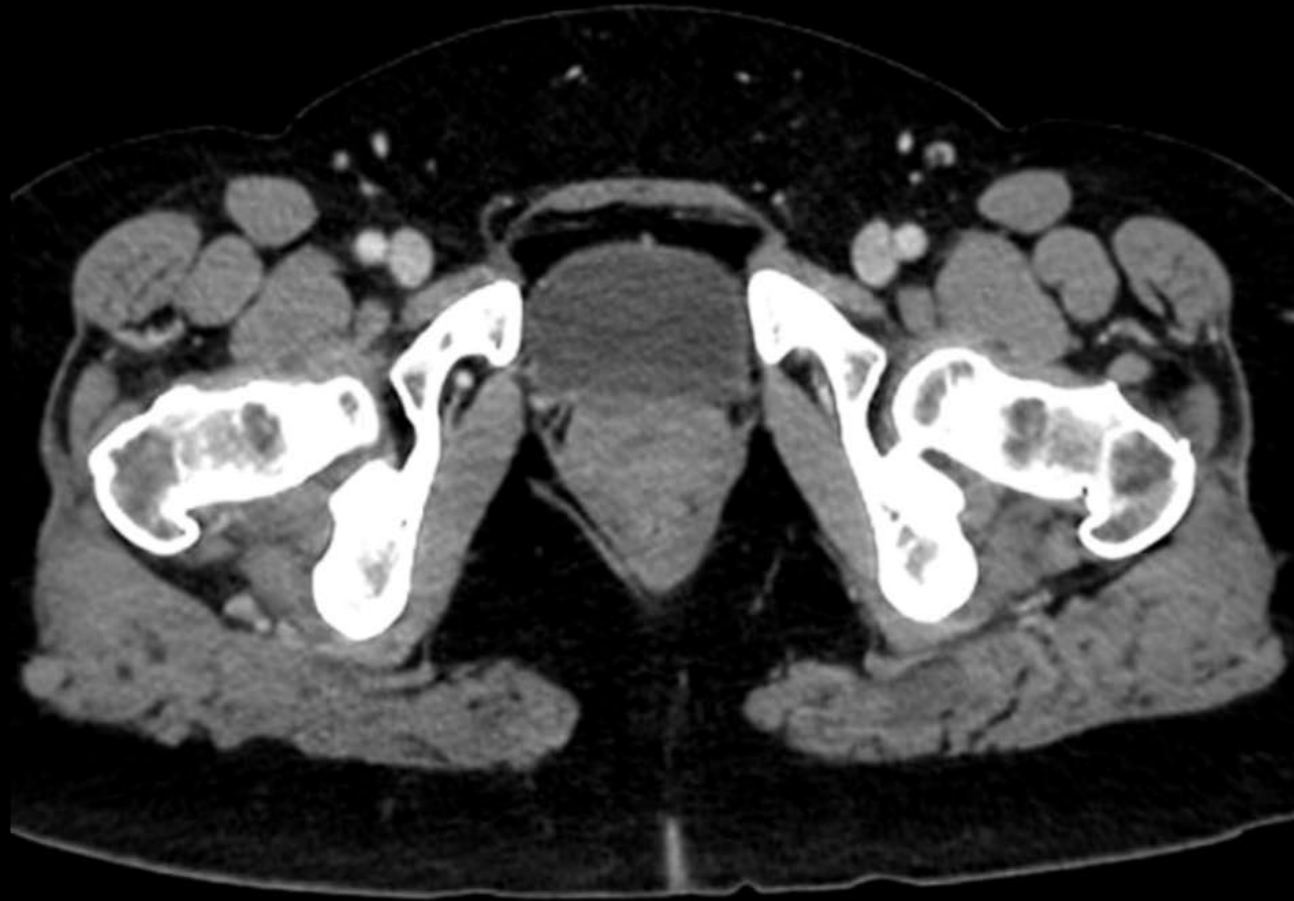


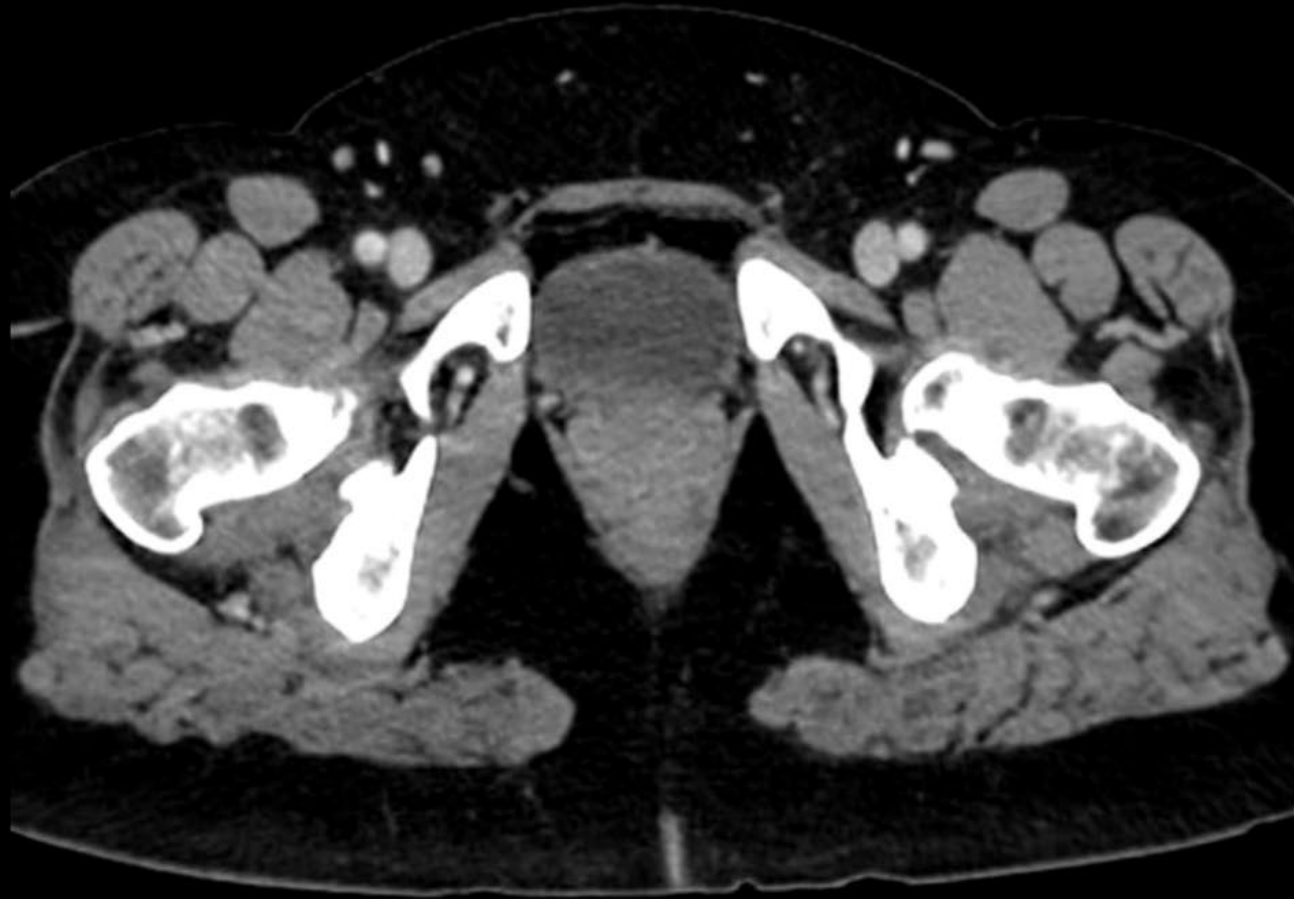


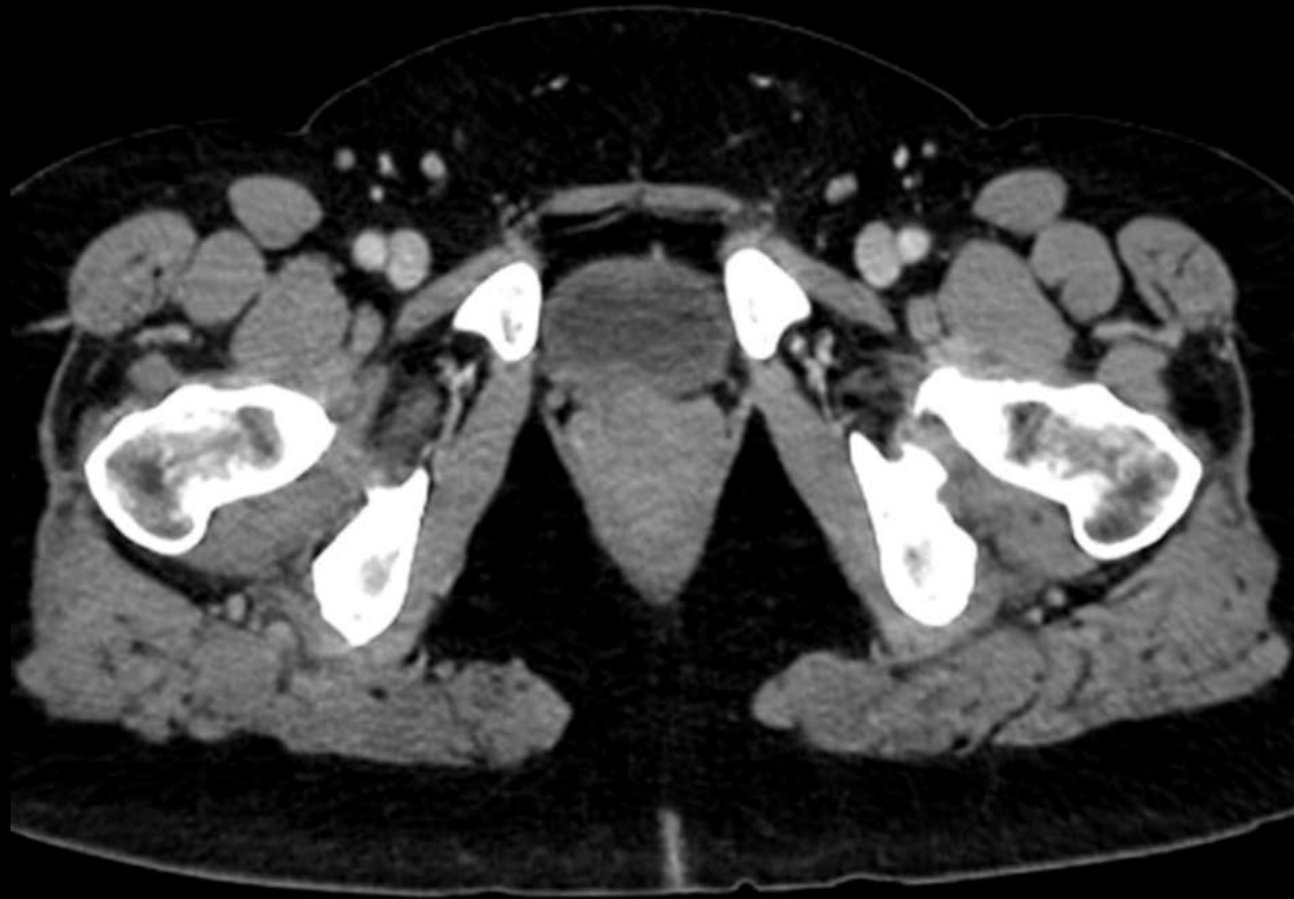


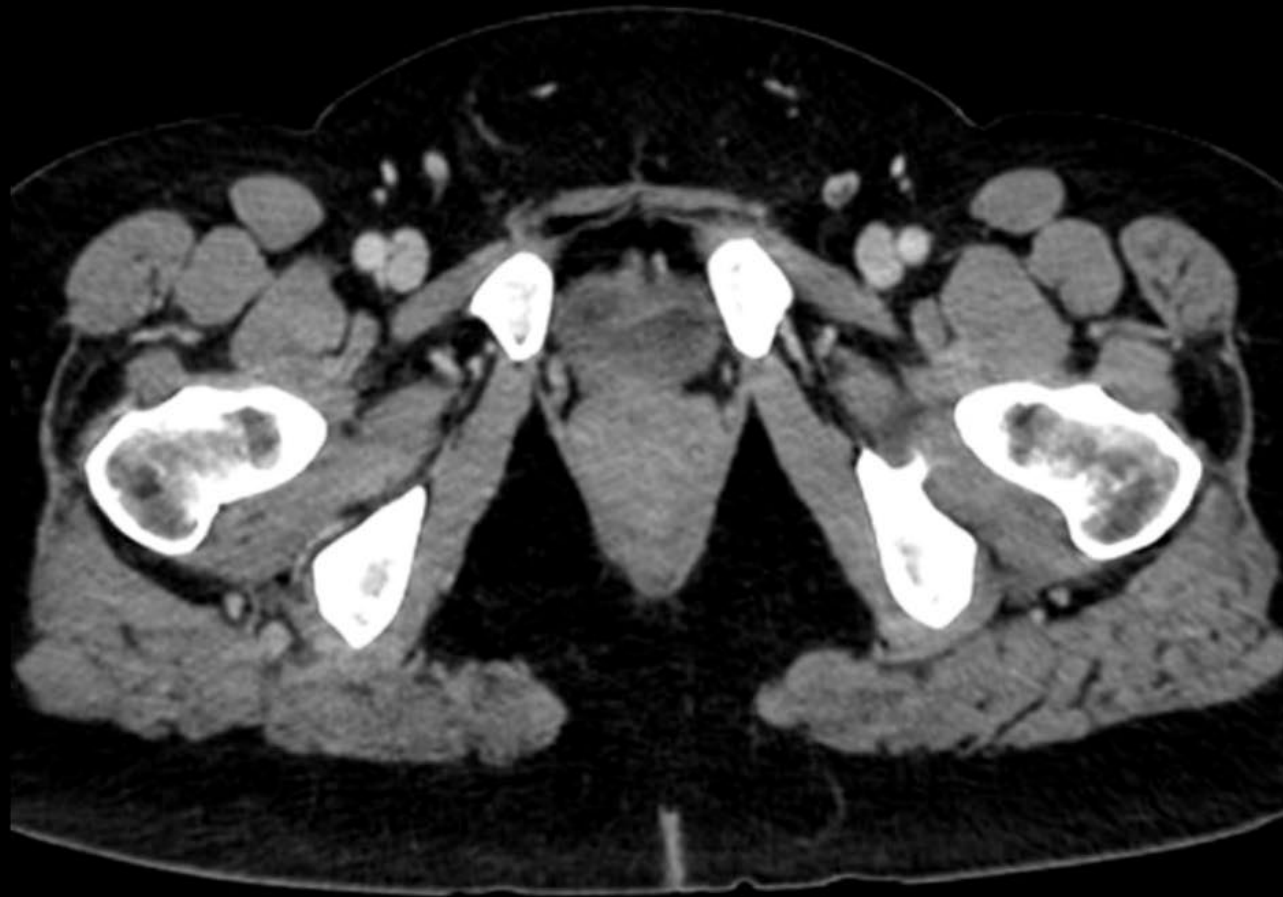


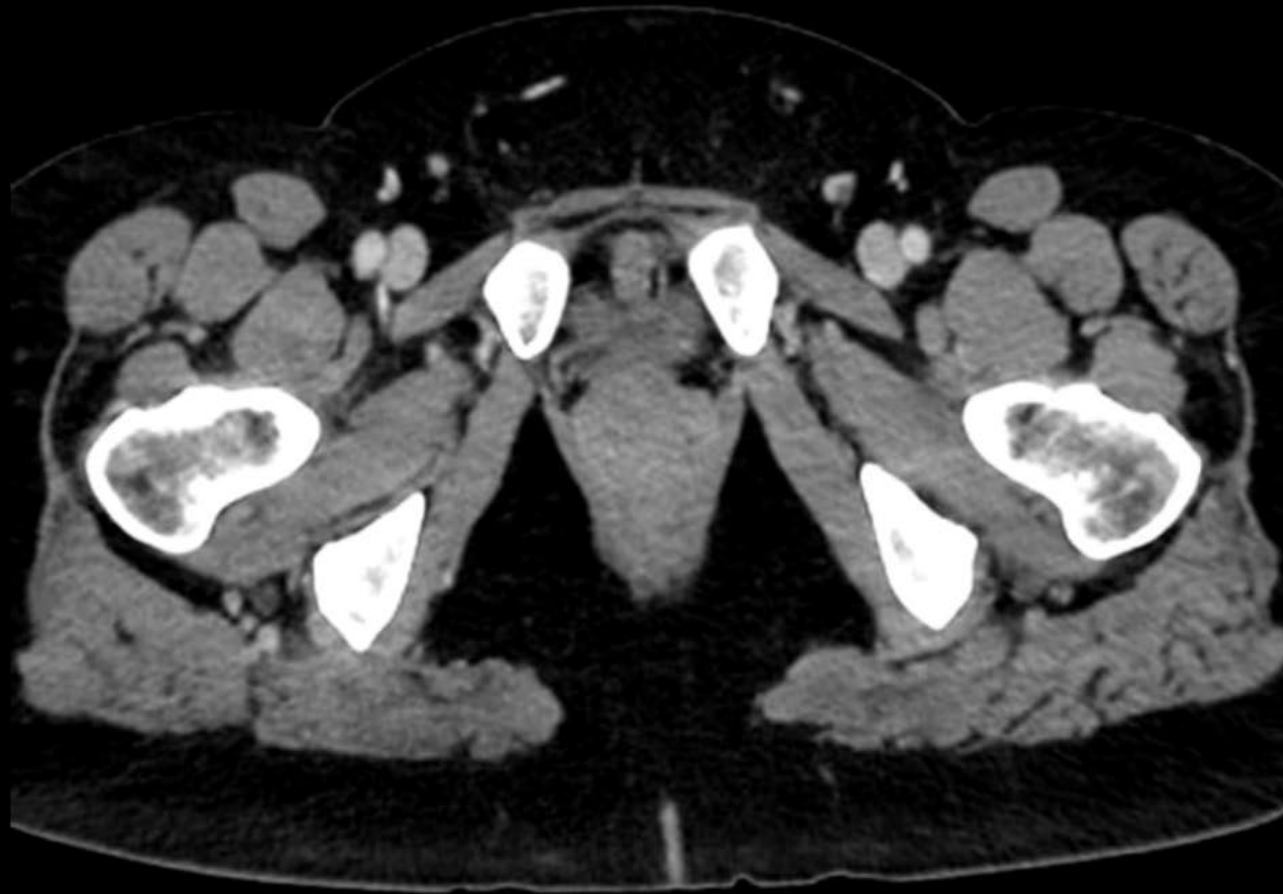
























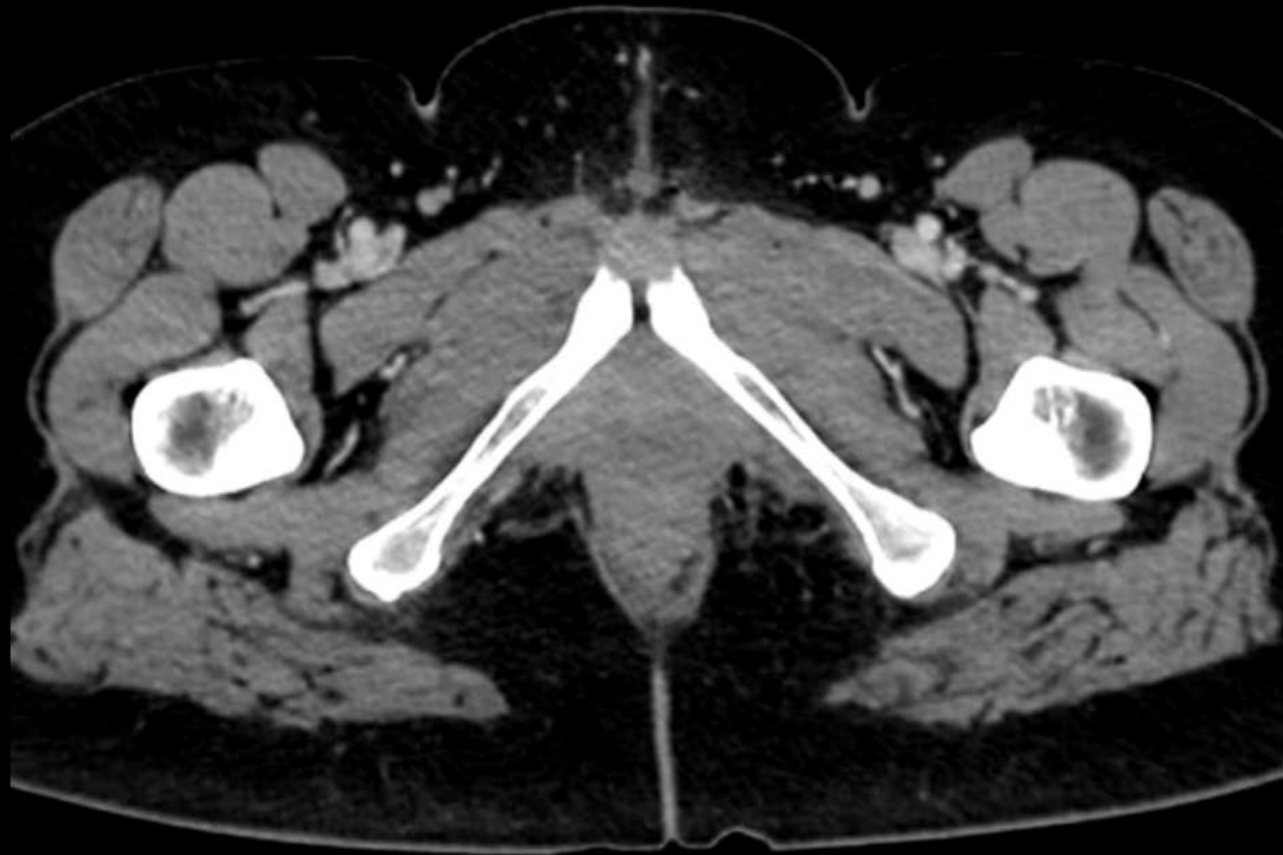
















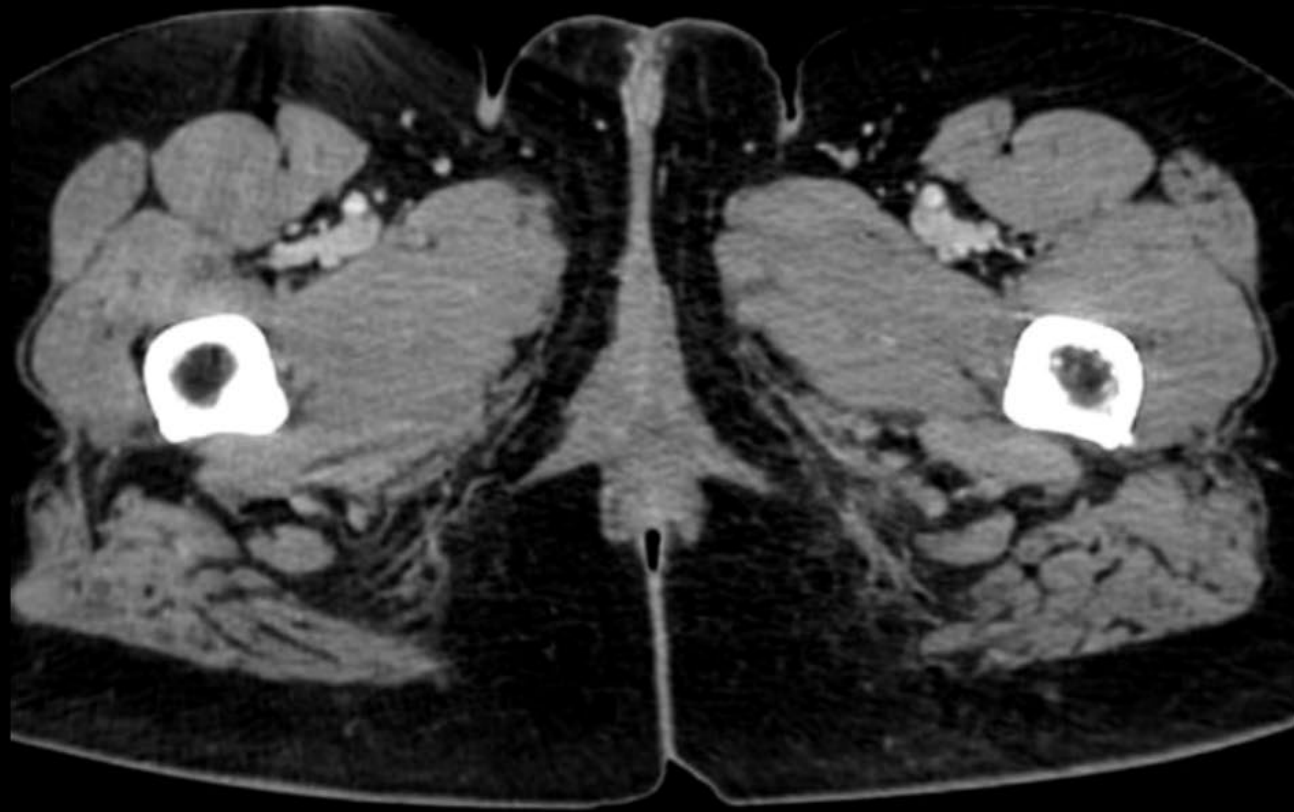


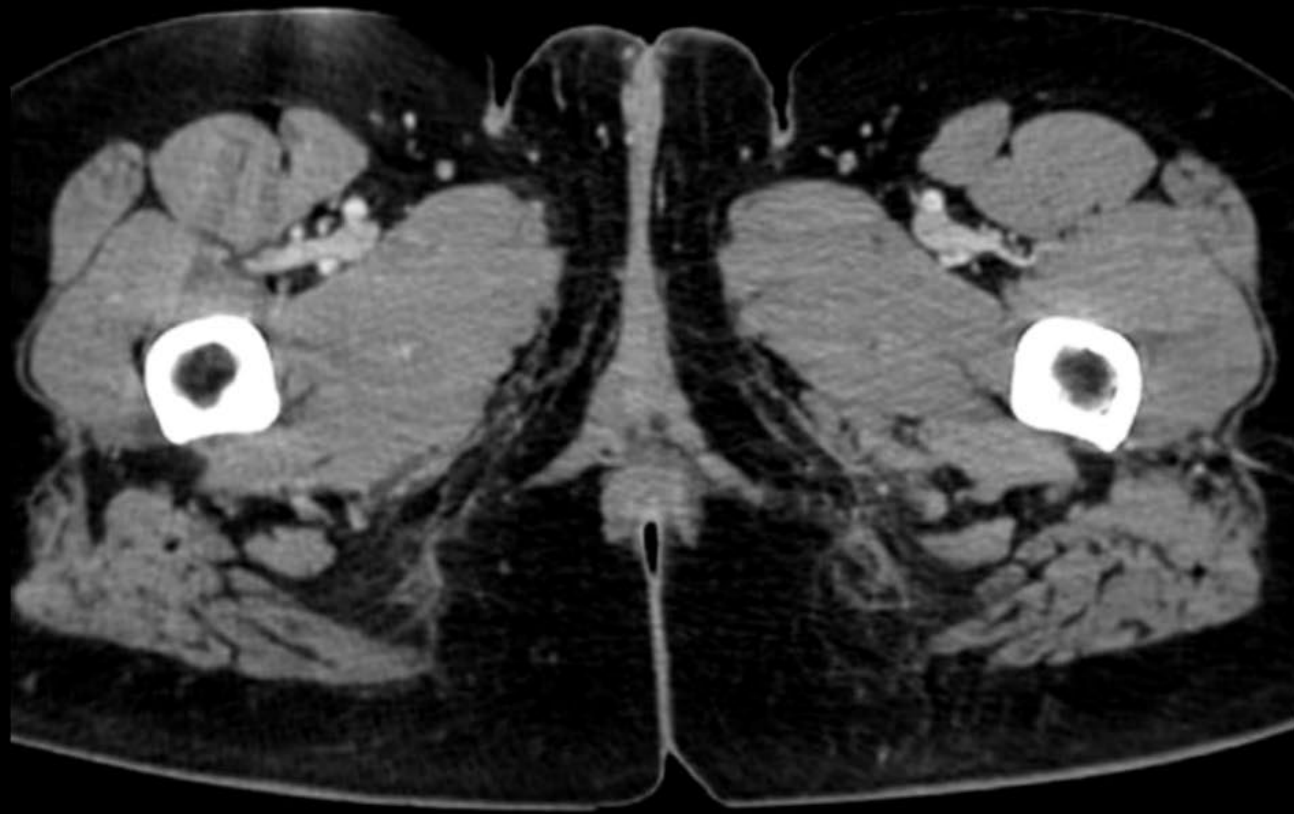


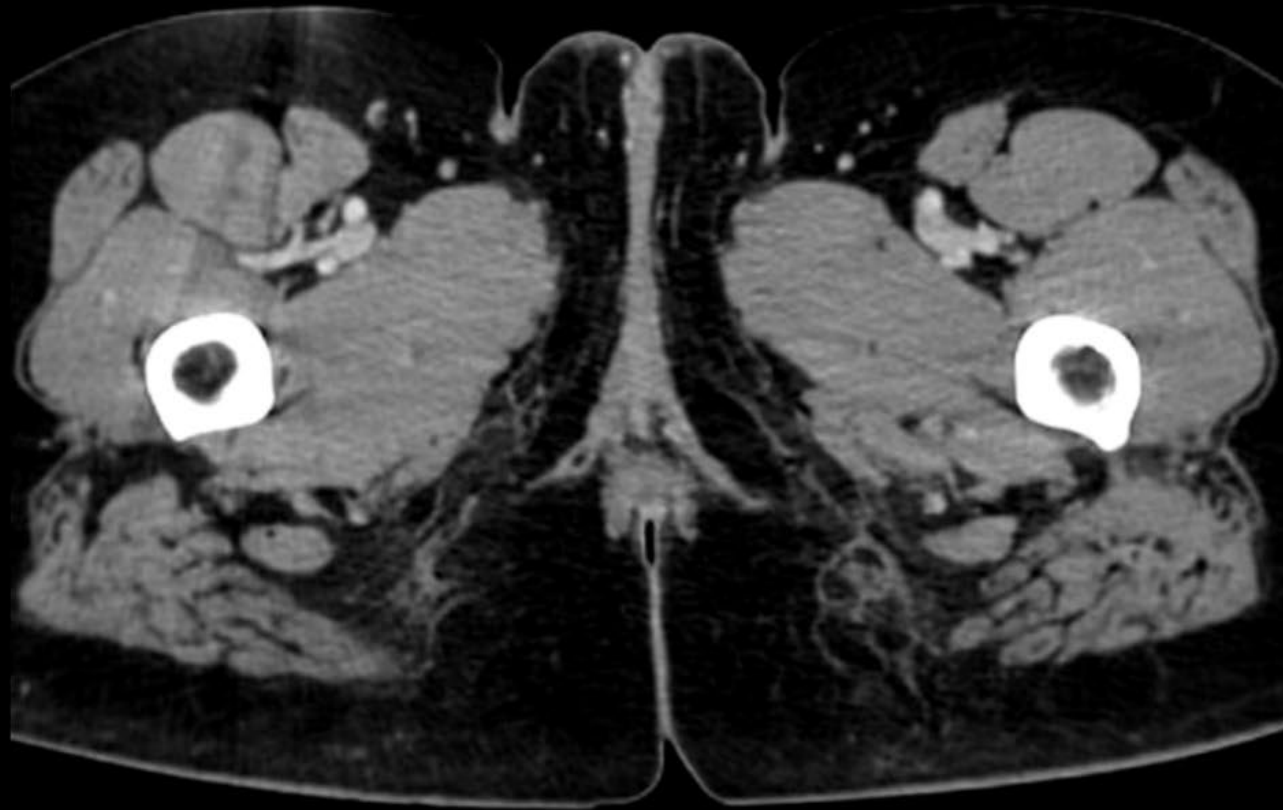




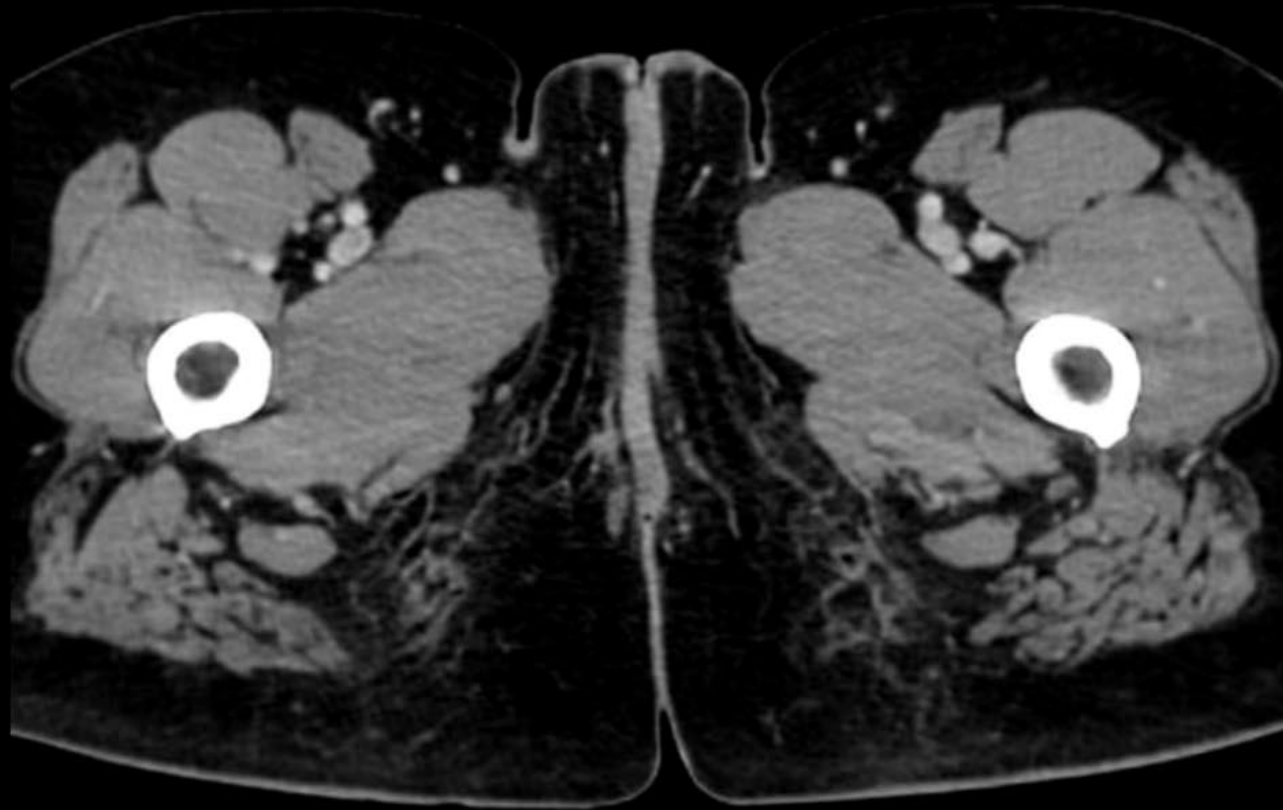


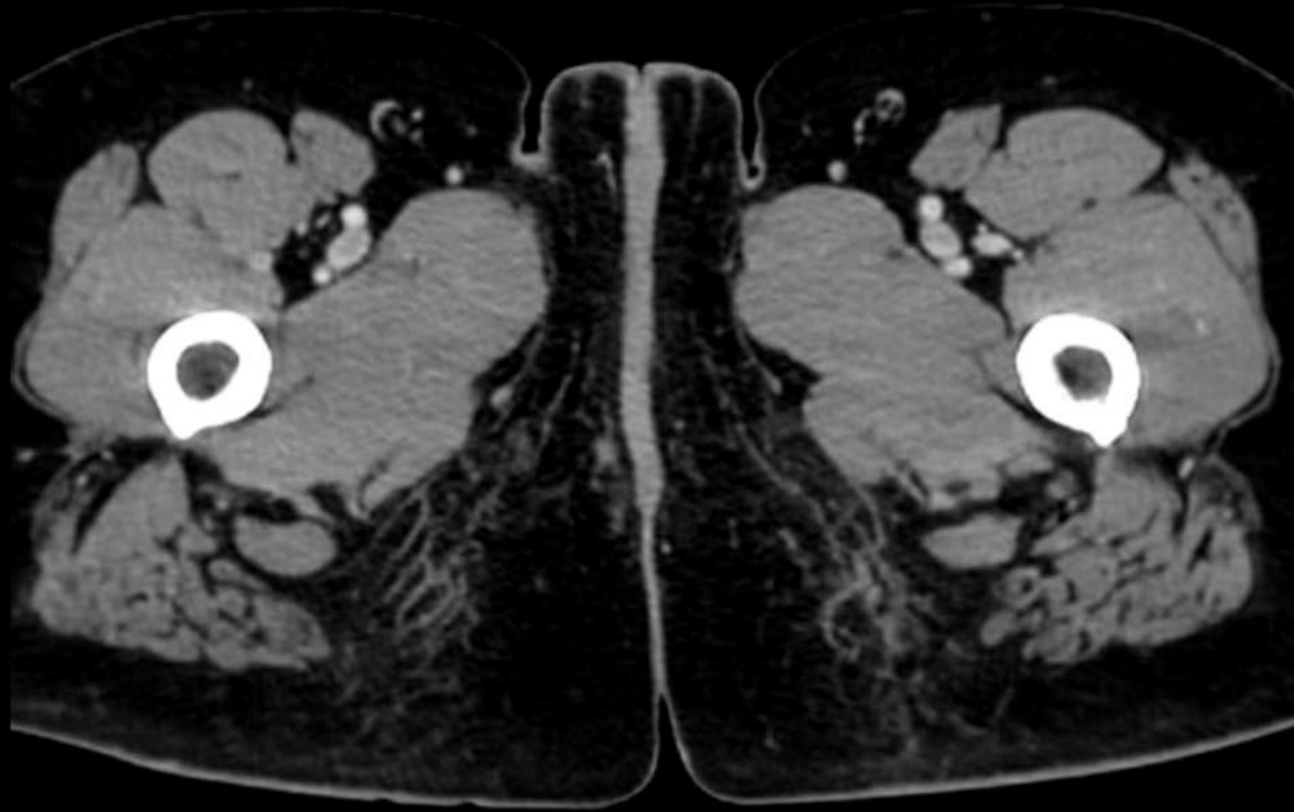


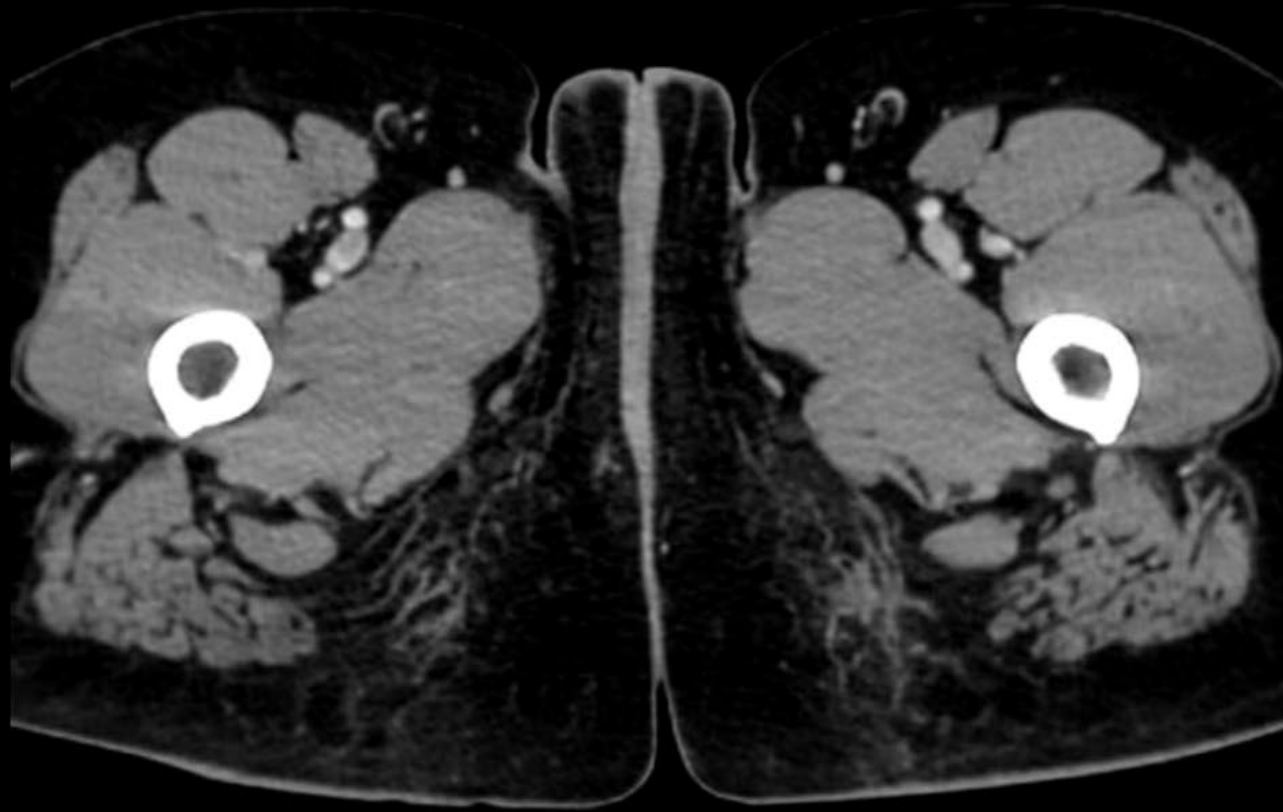


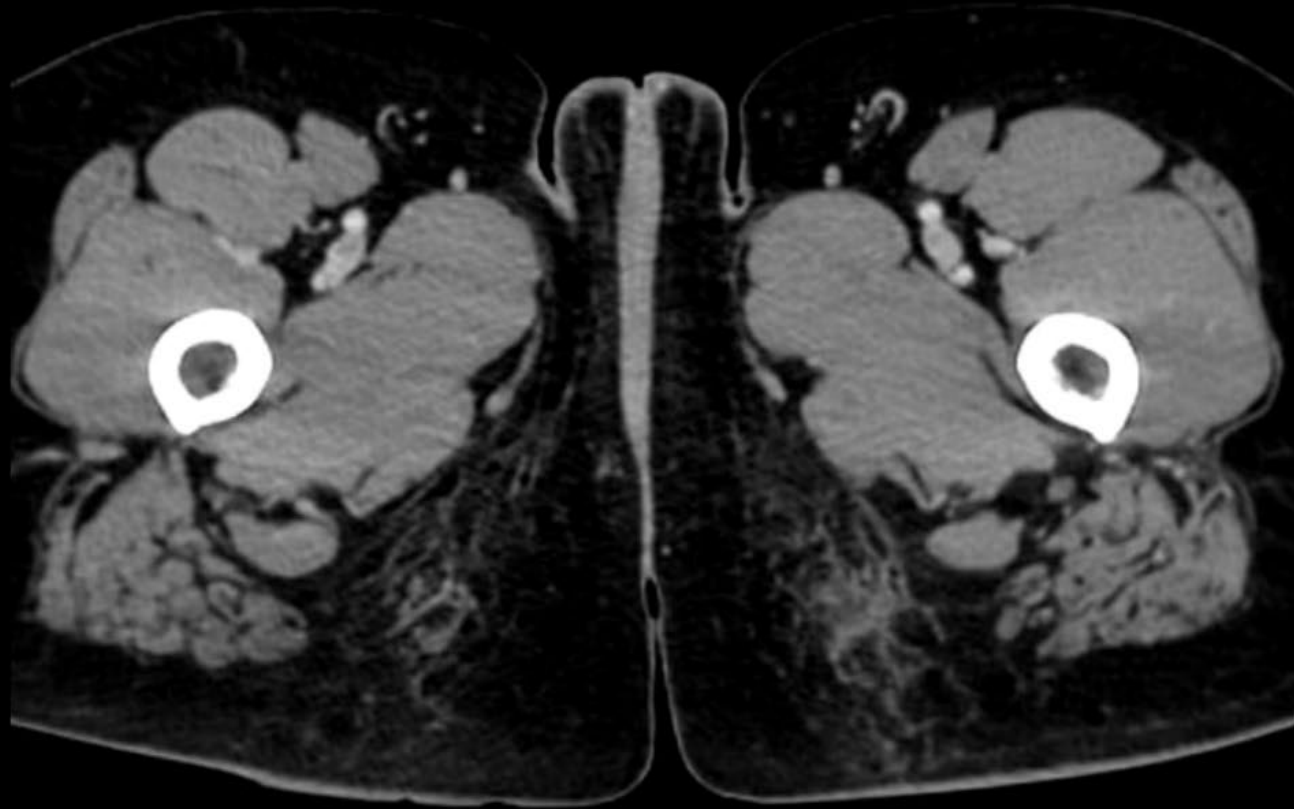


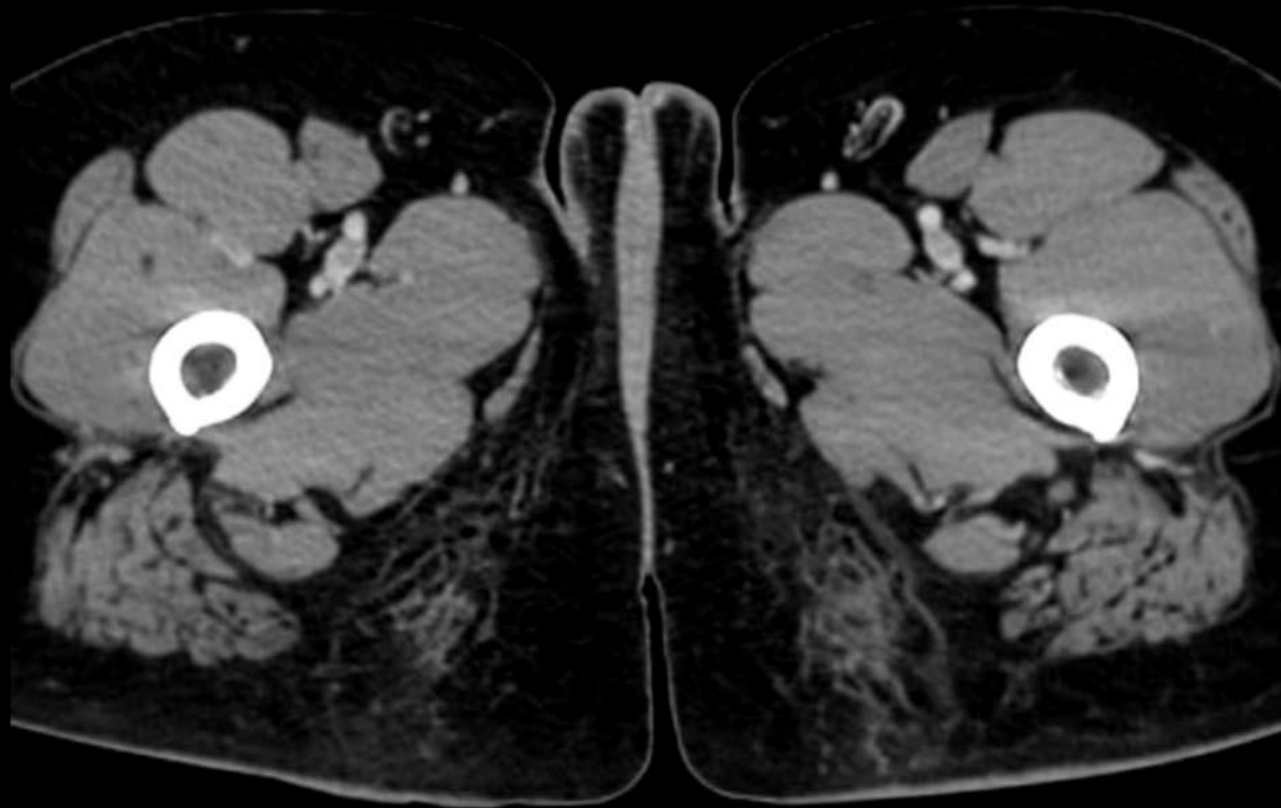


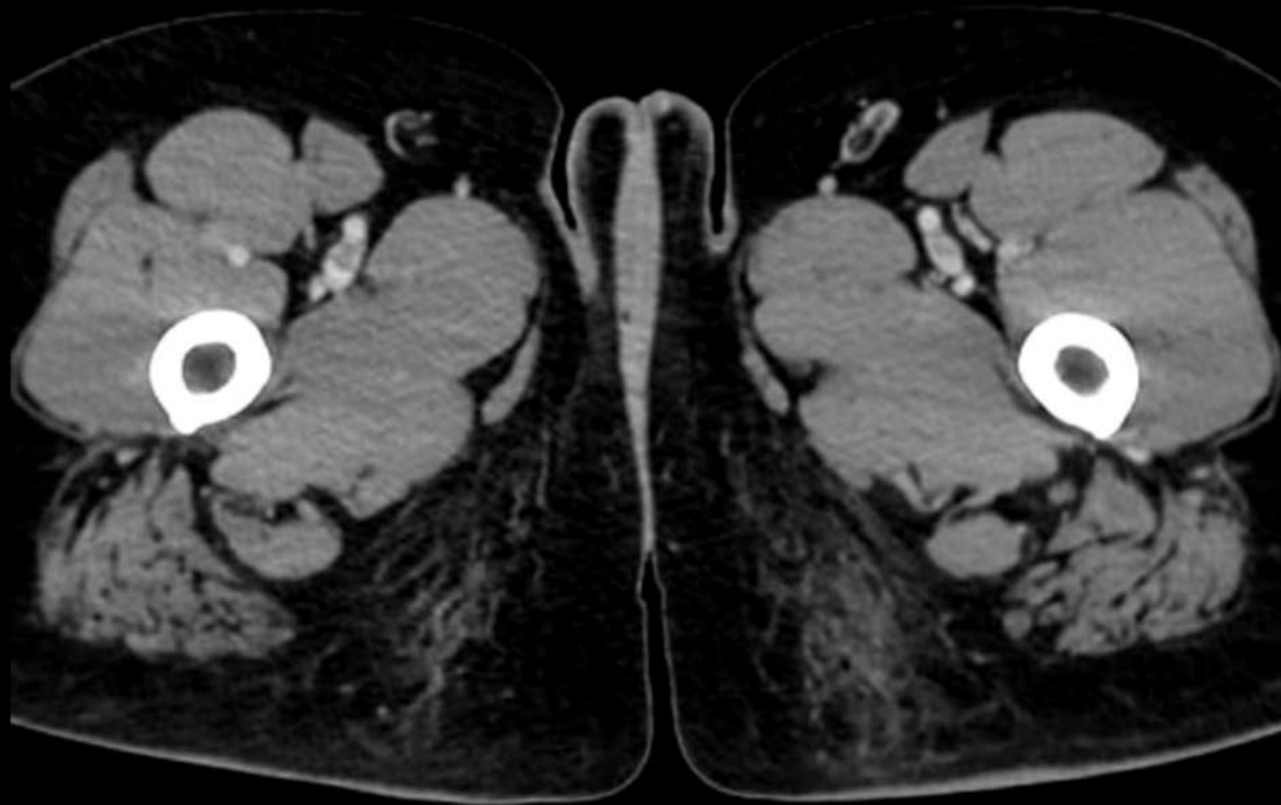














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