

☆Radiology☆

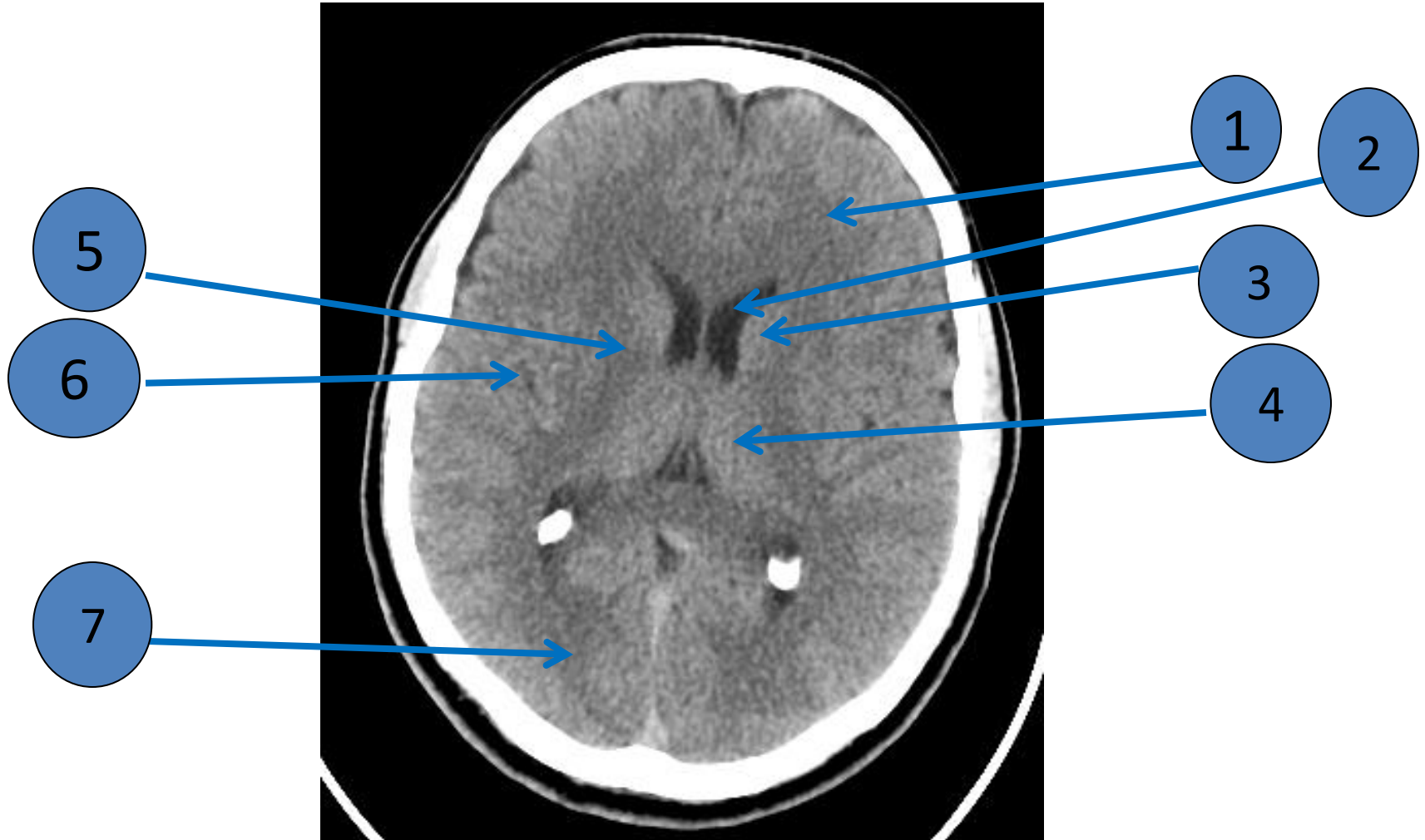
This Lecture is done by:
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Task I

- What are the various imaging modalities used to image the cerebral hemispheres?
 - MRI (Magnetic resonance imaging).
 - CT (Computerized Tomographic).
 - X-Ray.
 - Ultra Sound.
 - Nuclear Medicine(Functional Test).
- What are the main parts of the cerebral hemispheres ?
- Frontal lobe(Motor)-Temporal lobe(Auditory)-Parietal lobe(sensory)-Occipital lobe(vision).

Task II

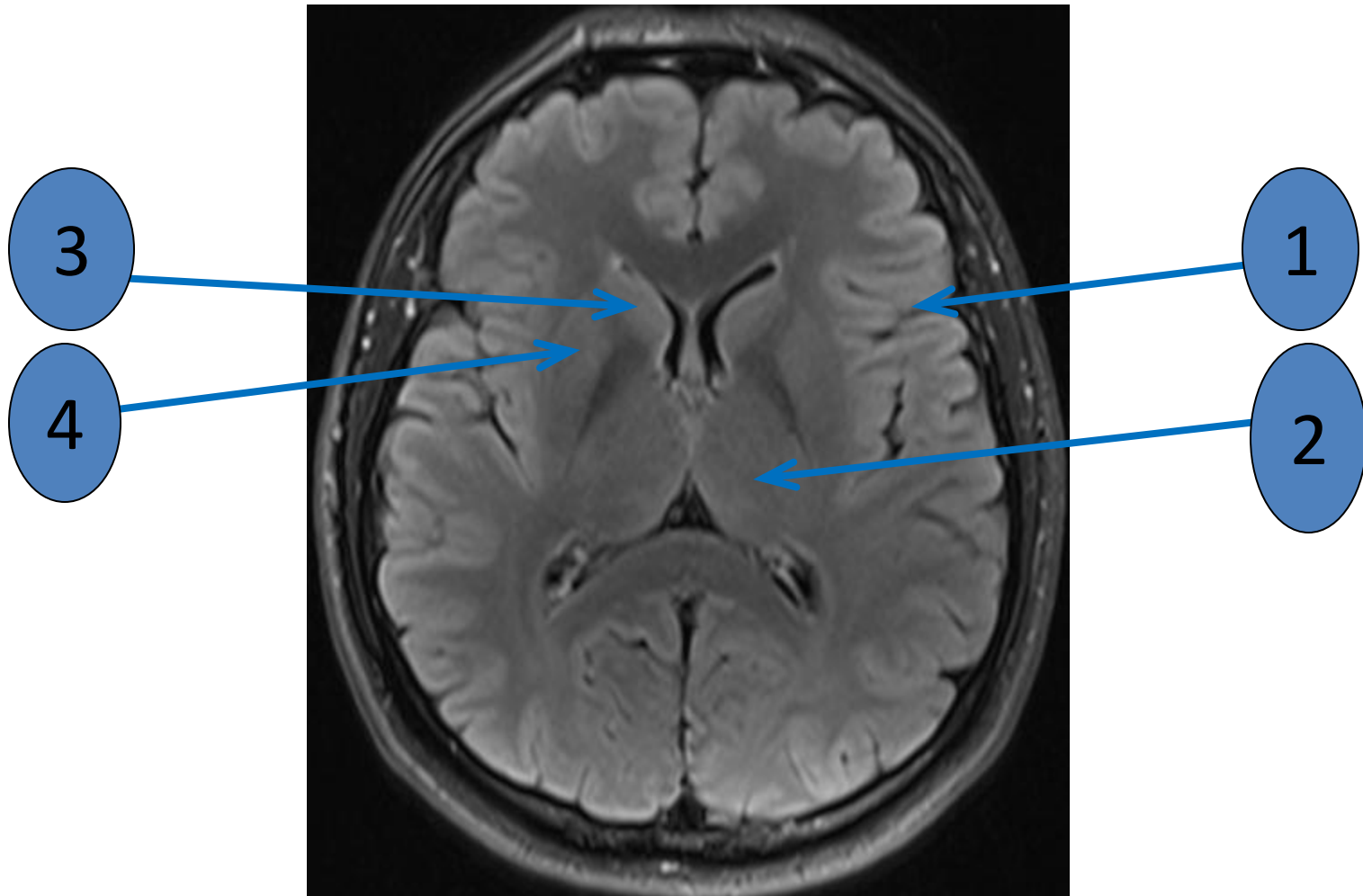
- Identify the following labels*



The Answers

- 1- White Matter(left frontal lobe).
 - 2- lateral ventricle.
 - 3- left caudate nucleus .
 - 4- Thalamus.
 - 5- Internal capsule
 - 6- central Sulcus.
 - 7- white matter of Occipital bone.
- * **This Image is Taken By** CT scan , Takes a clear picture for Bones.

★MRI Imaging = give s a clear picture for Soft Tissues★

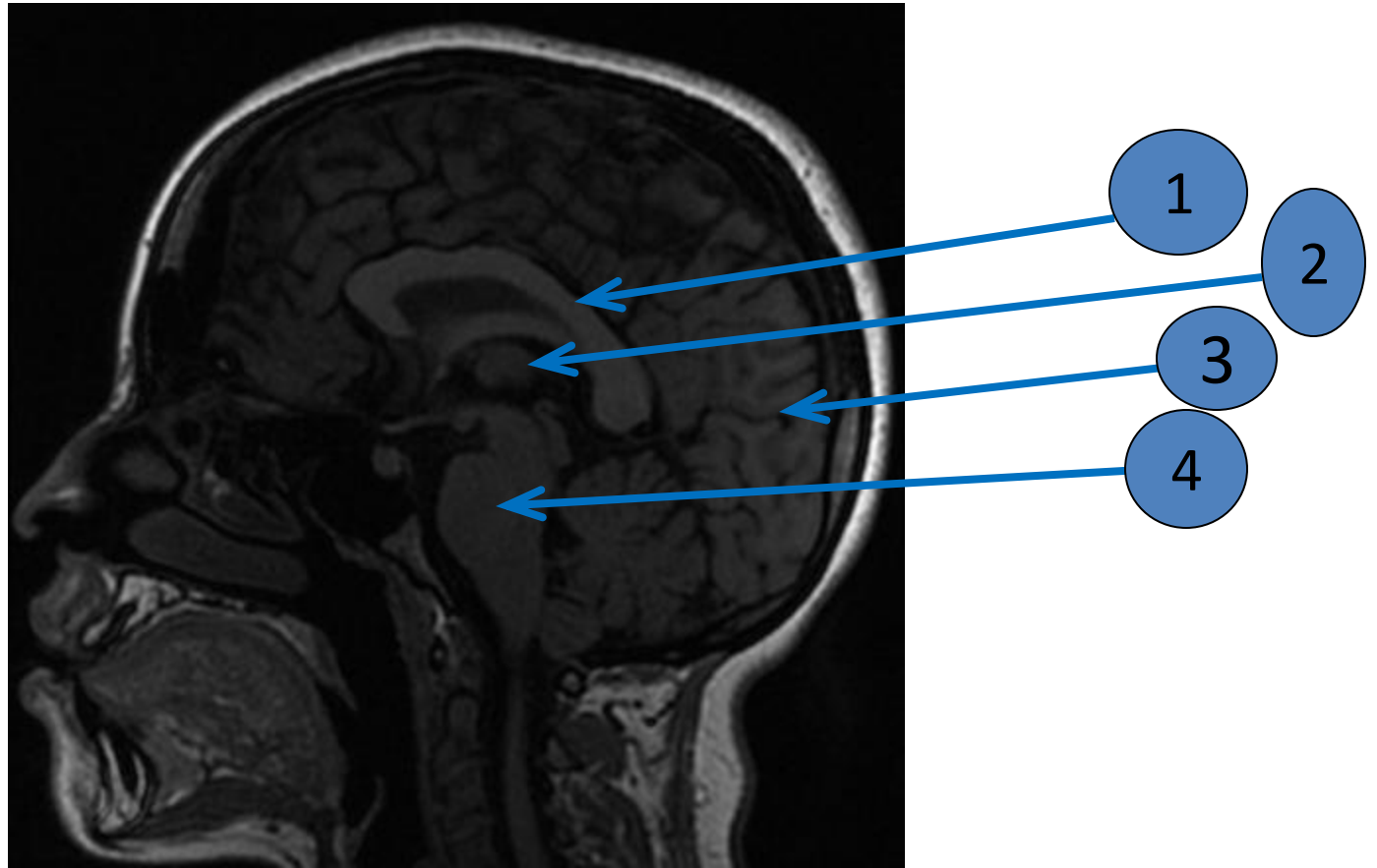


The Answers

- 1- Insula.
- 2- Thalamus.
- 3- Right Caudate Nucleus.
- 4- Lentiform Nucleus.

Task III

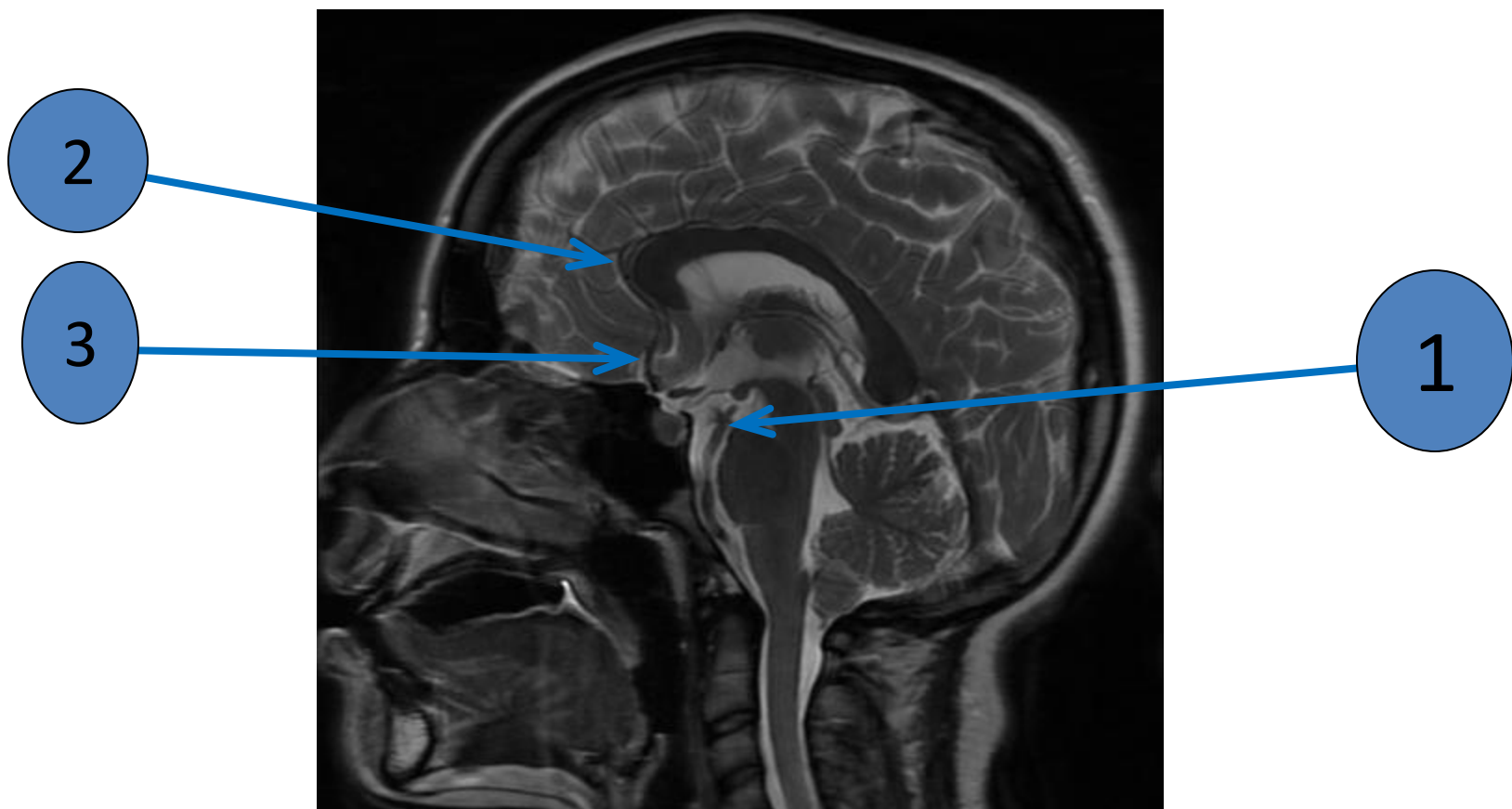
- *Identify the plane of the following section and the labeling arrows.*



MRI Imaging

The Answers

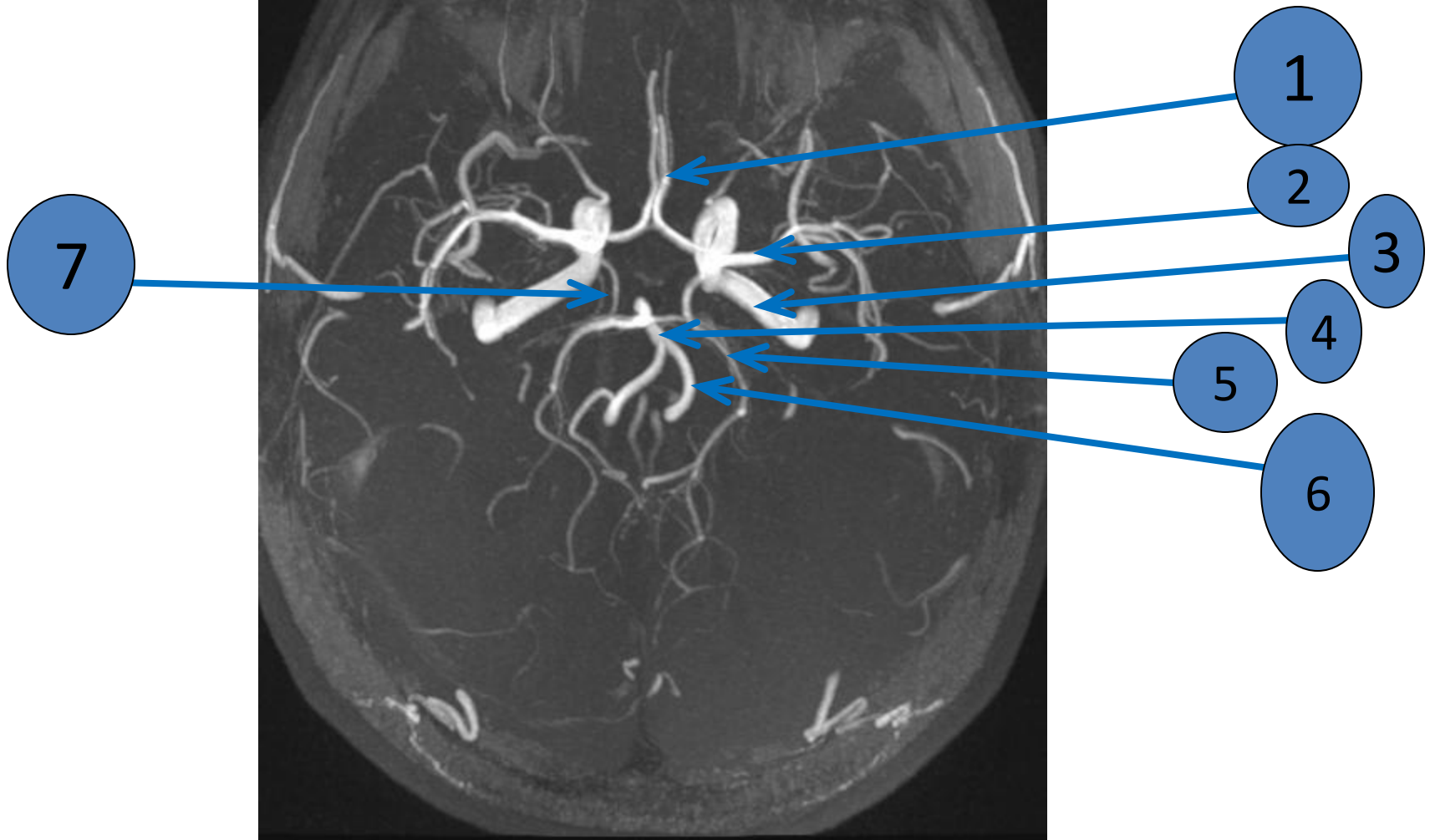
- 1- Corpus Callosum.
(its parts : Rostrum , Genu, Body and Splenium)
- 2- Massa Intermedia (junction Between Two Thalami).
- 3- Parietooccipital Sulcus.
- 4-Pons.



The Answers

- 1- Basalar Artery.
- 2- Cingulate Artery.
- 3- Anterior Cerebral Artery.

Warning: Not for diagnostic use

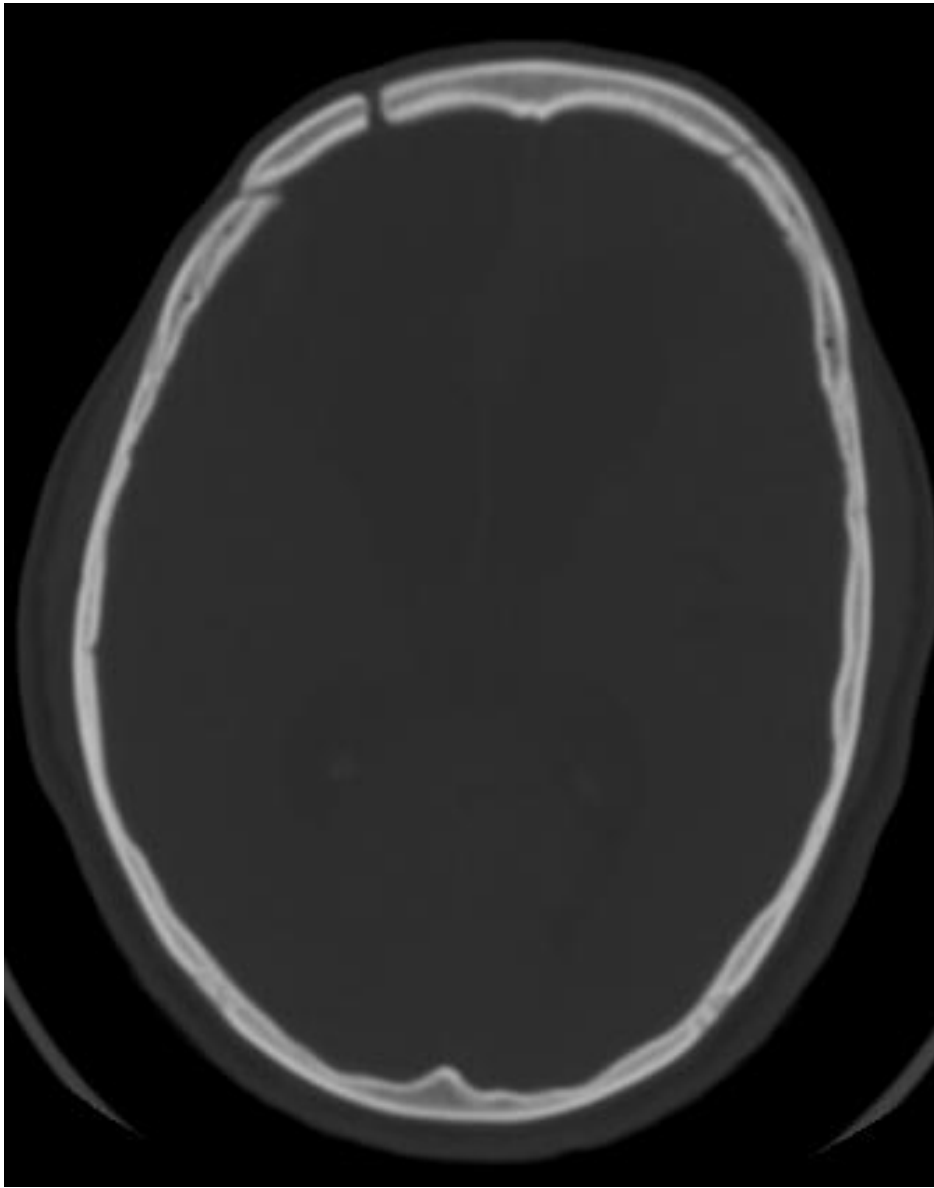


The Answers

- 1- Anterior Cerebral Artery.
 - 2- Middle Cerebral Artery.
 - 3- Internal Carotid Artery.
 - 4- Basilar Artery.
 - 5- Posterior Cerebral Artery.
 - 6- vertebral Artery(Two Vertebral Arteries join to give Basilar Artery).
 - 7- Posterior Communicating Artery.
- *This Picture Shows : MR angiogram Of Circle Of Willis.

Task IV

- Patient had MVA with loss of consciousness, following CT is taken
What are the findings?



*Fracture in the
**Right Frontal
Bone.**

*This imaging is
CT scan ..



*Hemorrhage in the **right frontal area**.

*This imaging is CT scan ..

