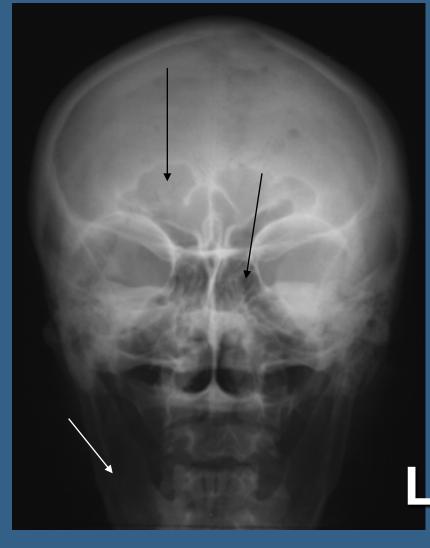
Neuroradiology

interactive lecture

366 RAD (Radiology)

Prof. Ibrahim A. Alorainy

Name the structures



SKULL PA VIEW

Skull X-RAY LAT. VIEW

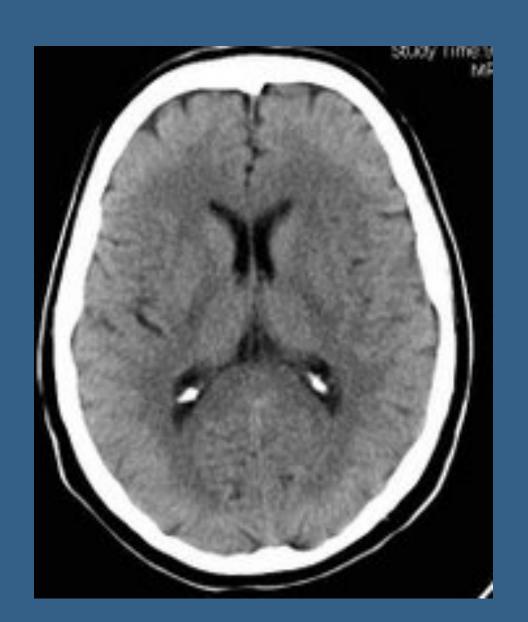


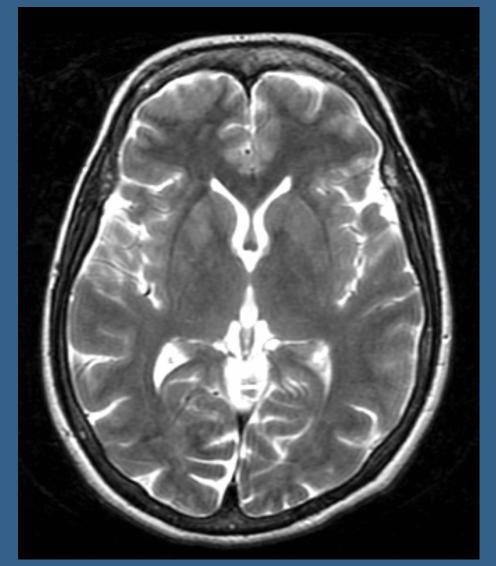
Which is true on this brain CT regarding anatomy:

- A. Internal capsule
- B. Caudate head
- C. Cerebral peduncle
- D. Putamen
- E. Thalamus
- F. 4th ventricle

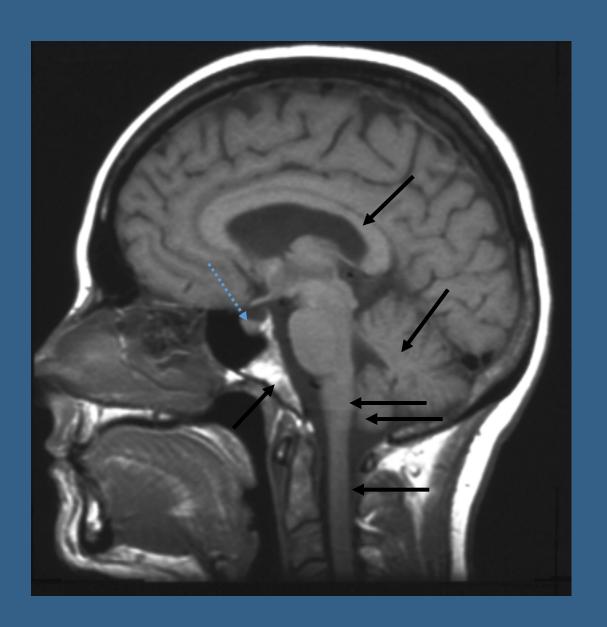
Which is true in CT?

- A. Bone is black
- B. CSF is black
- C. Gray matter is darker than white matter
- D. Gray and white matter can not be differentiated





Name the structures



Contraindication of MRI include all the following EXCEPT:

- A. cardiac pacemaker
- B. cochlear implants
- C. metal close to the eye
- D. neurostimulators
- E. pregnancy (3rd trimester)

MRI diffusion (DWI) is particularly helpful in assessment of:

- A. Brain infarction
- B. Brain abscess
- C. Brain tumors
- D. Hydrocephalus

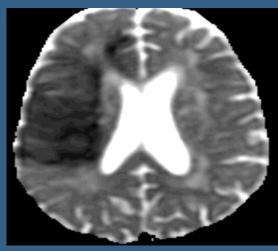
MRI Diffusion..

MR diffusion

Very helpful in assessment of:

- •Early brain infarction.
- •Brain abscess.
- •Certain types of brain tumor.

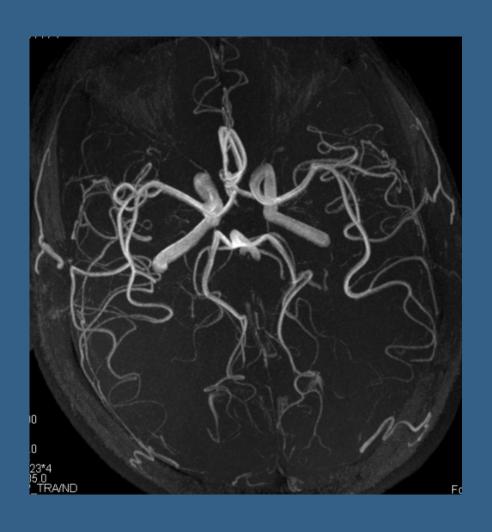




DWI

ADC map

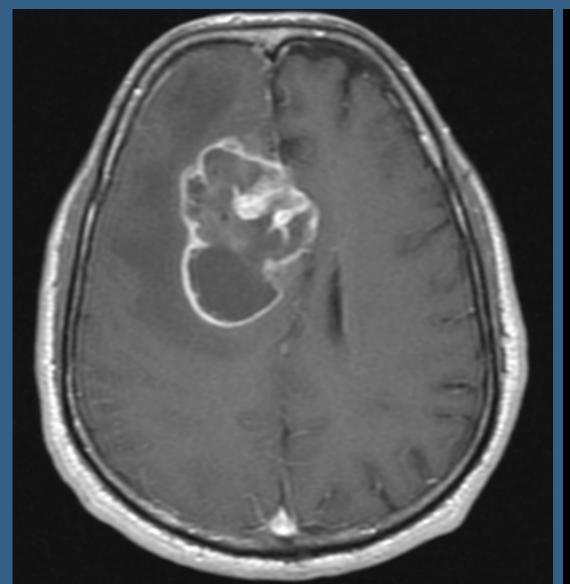
Which of the following is true?

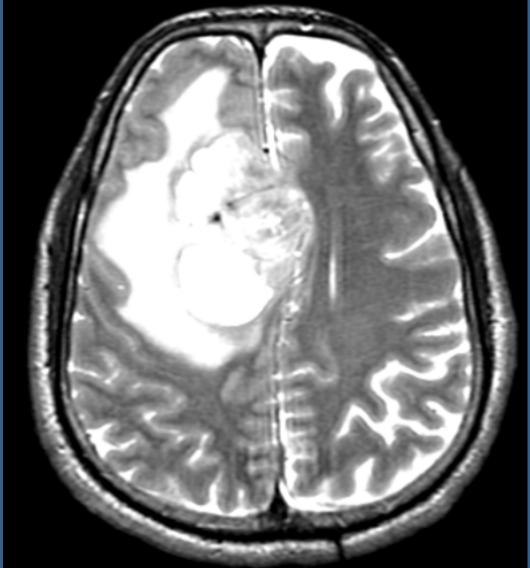


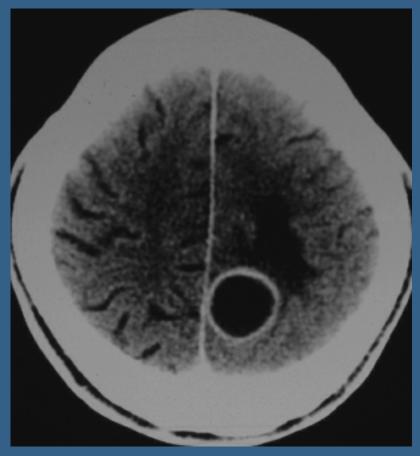
- A. This is CTA study
- B. This is MRA study
- C. This can only be done with contrast
- D. This is good to diagnose cerebral venous thrombosis

An MRI showed intra-axial lesion that is necrotic, irregular, strongly enhancing, and crossing midline. This lesion is most likely:

- Meningioma
- Infarction
- Multiple sclerosis
- Glioblastoma multiforme

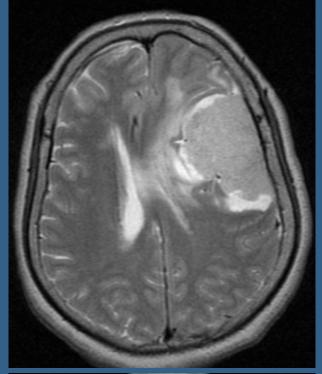


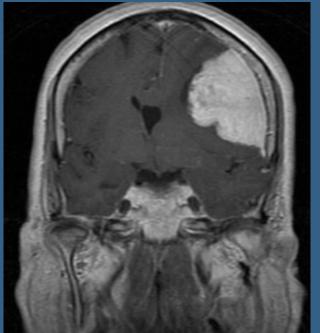




The lesion on this CT is:

- Meningioma
- Abscess
- Multiple sclerosis
- Glioblastoma multiforme

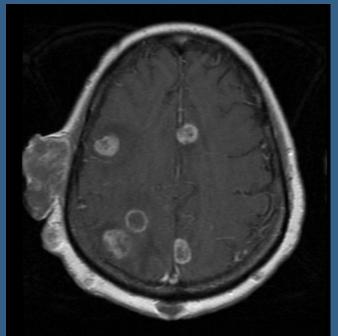


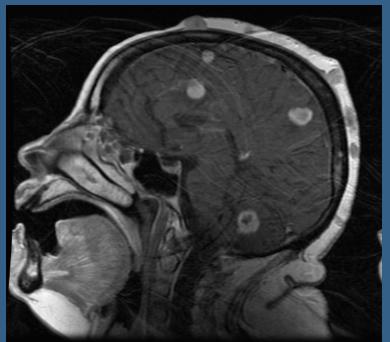


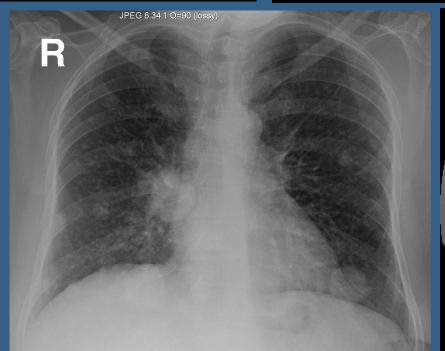
The lesion on this MRI is:

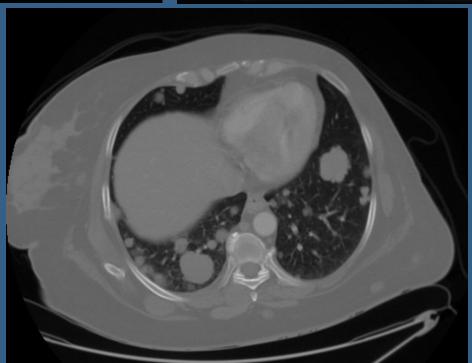
- Meningioma
- Infarction
- Metastasis
- Abscess





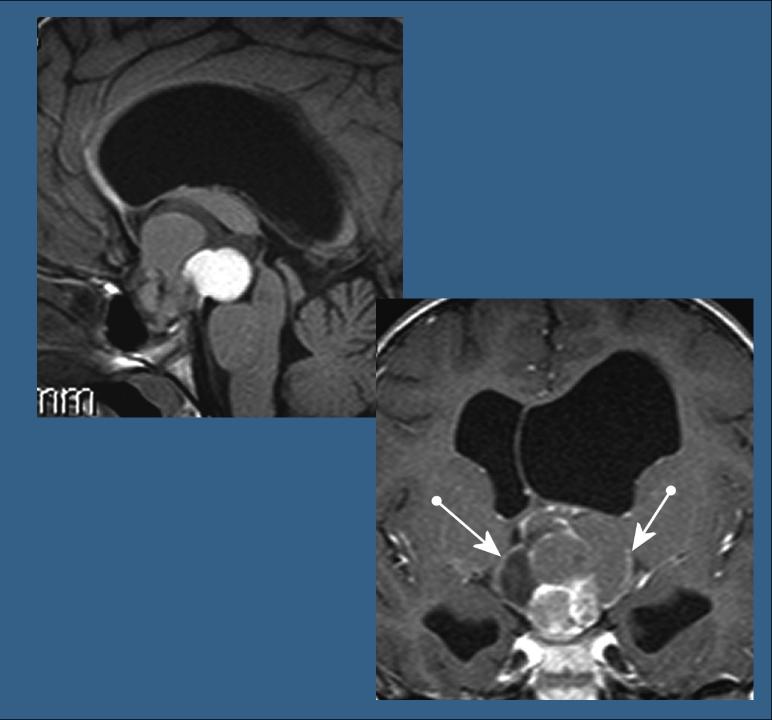


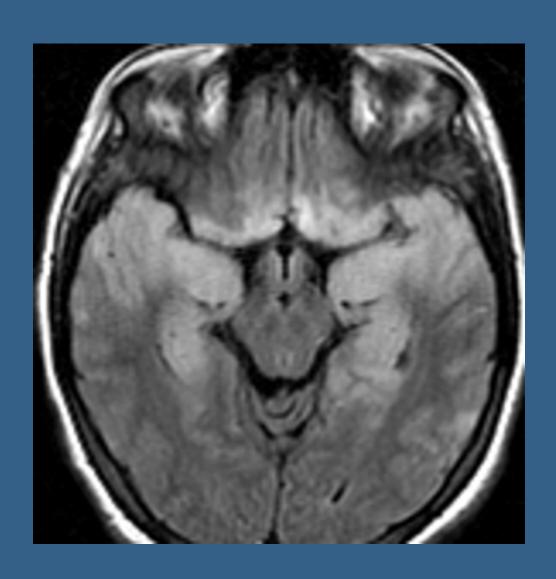




The lesion on this MRI is:

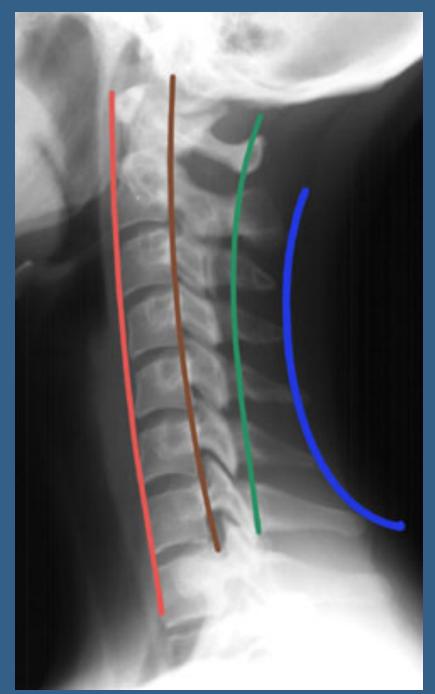
- A. Pituitary adenoma
- B. Craniopharyngioma
- C. Meningioma
- D. Glioblastoma multiforme





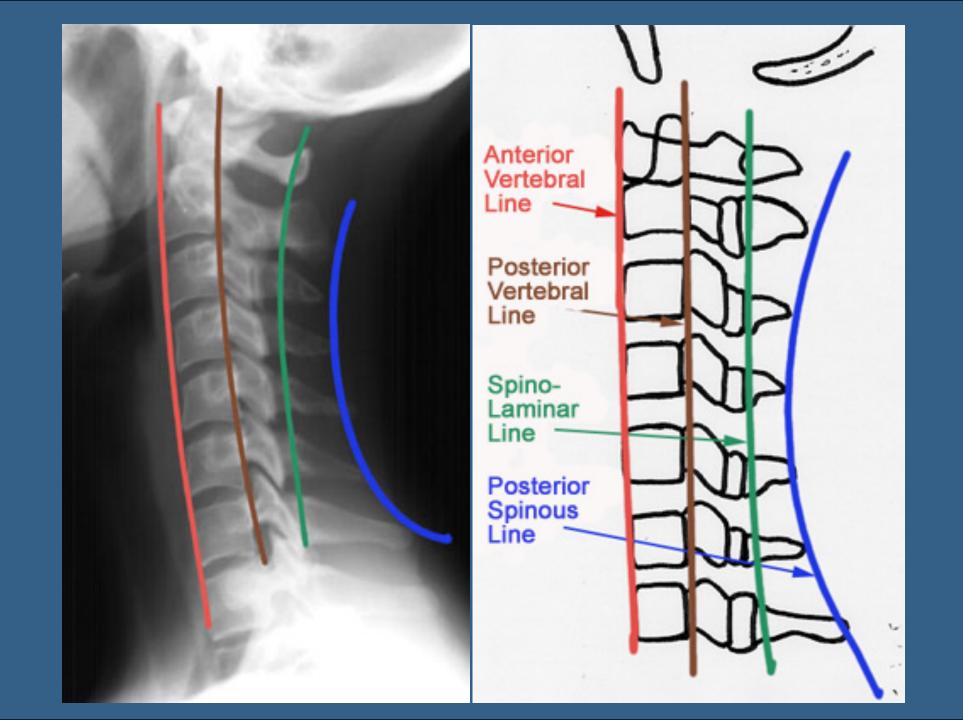
The abnormalities on this MRI are due to:

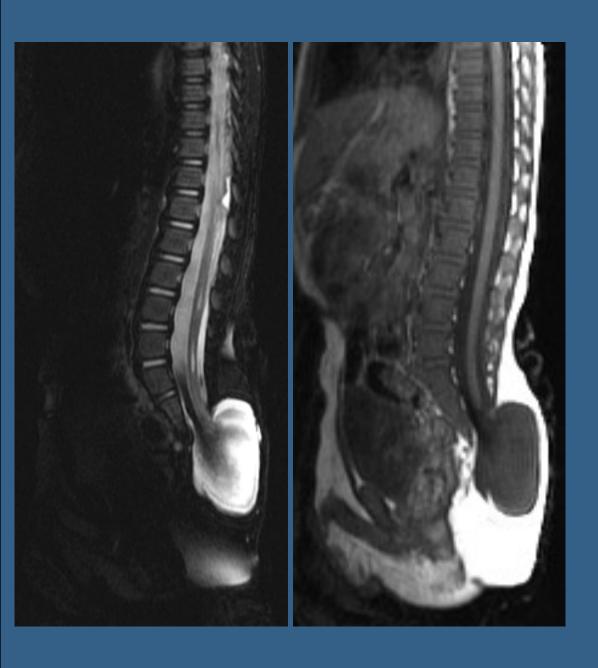
- A. Multiple sclerosis
- B. Meningitis
- C. Brain tumor
- D. Encehalitis



Which of the following is true about the lines of the cervical spine?

- A. Red is intervertebral line
- B. Brown is posterior spinous line
- C. Green is spinolaminar line
- D. Blue is posterior vertebral line

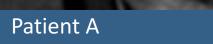




This MRI of the spine shows:

- A. Meningocele
- B. Extradural tumor
- C. Discitis
- D. Vertebral fusion



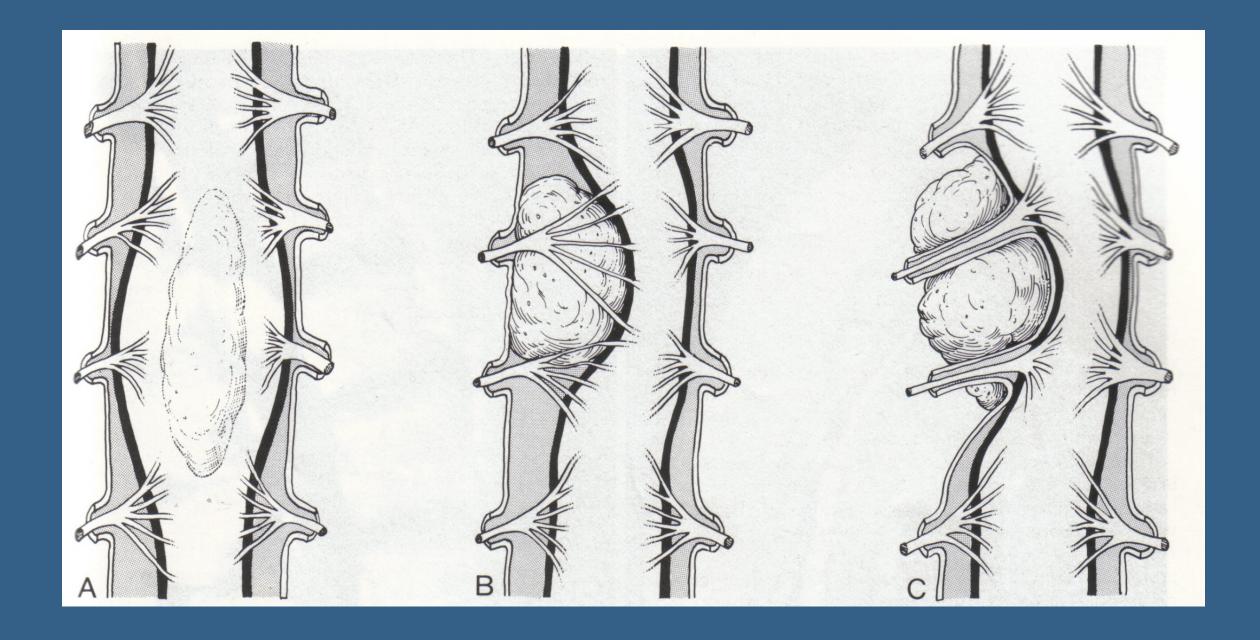




Patient B



Patient C

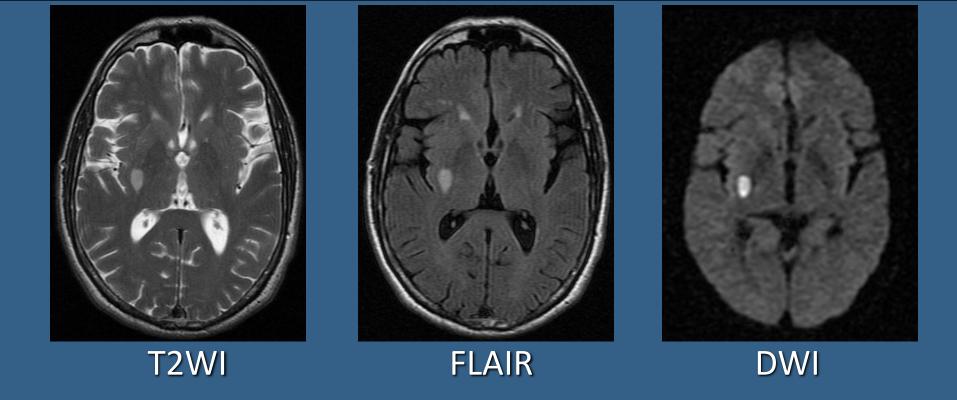




Normal control

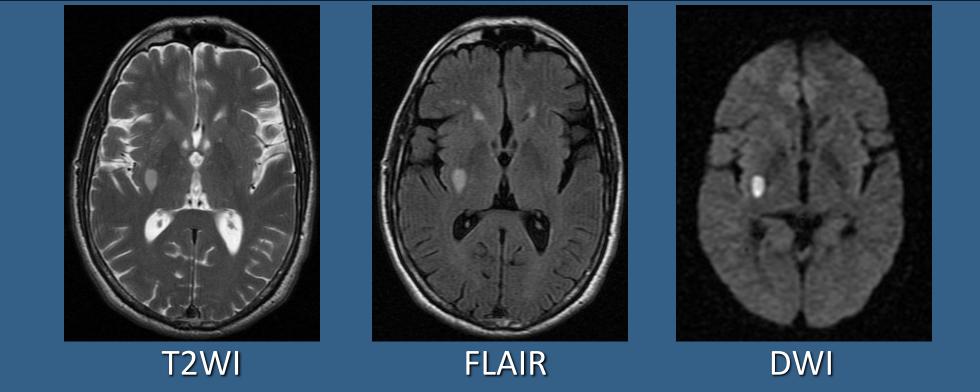
Patient

What is the difference?



This MRI shows an infarction in the right basal ganglia. The infarction is:

- A. Acute (recent)
- B. Chronic (old)
- C. Hemorrhagic
- D. In PCA territory



This patient is most likely to have:

- A. Left monoplegia
- B. Left hemiplegia
- C. Diplegia
- D. No symptoms



This CT shows:

- A. Subdural hematoma
- B. Subarachnoid hemorrhage
- C. Intraventricular hemorrhage
- D. All of the above



The hematoma pointed by the arrow is:

- A. Acute epidural
- B. Chronic epidural
- C. Acute subdural
- D. Chronic subdural
- E. None of the above



This CT shows:

- A. Acute PCA infarct
- B. Chronic ACA infarct
- C. Subarachnoid bleeding
- D. Meningioma
- E. Abscess

Thank you