

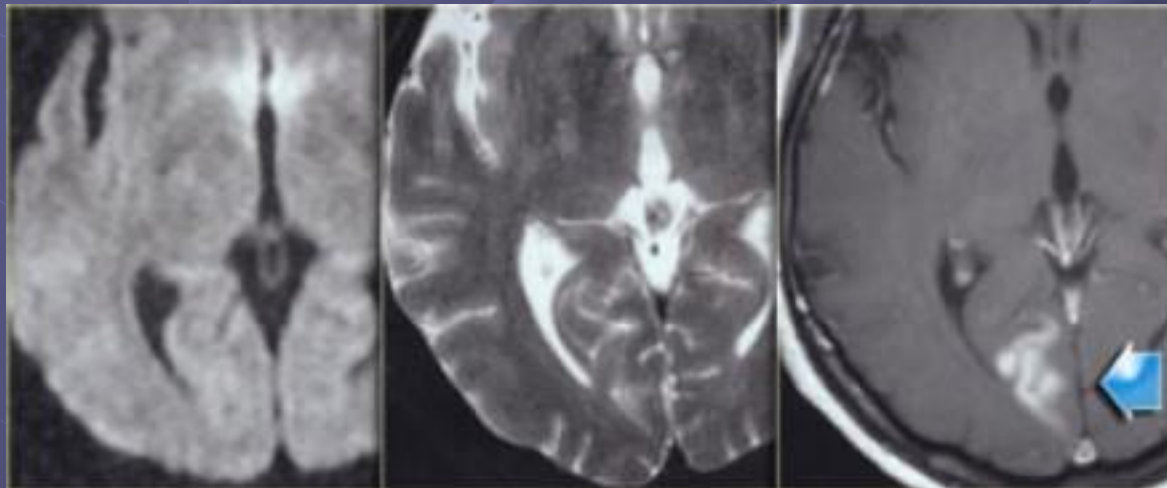
# Stroke

| Stage                 | T1  | T2  | DWI                | ADC    |
|-----------------------|-----|-----|--------------------|--------|
| Hyperacute < 6 hrs    | Iso | Iso | ↑                  | ↓      |
| Acute 6 hrs – 4Days   | ↓   | ↑   | ↑                  | ↓      |
| Subacute 4 d –14 days | ↓   | ↑   | ↑ T2 shine through | normal |
| Chronic > 2 weeks     |     |     | ↑ T2 shine through | high   |

*If the Flair normal, then Stroke < 4 hrs.*

# Pseudo-normalization of DWI

- *Occurs between 10-15 days.* The case on the left shows a normal DWI.
- On T2WI there is may be some subtle hyper intensity in the right occipital lobe in the vascular territory of the posterior cerebral artery.
- The T1WI after the administration of Gadolinium shows gyral enhancement indicating infarction.



# T2 and DWI

- In the acute phase T2WI will be normal, but in time the infarcted area will become hyperintense.
- The *hyperintensity on T2WI reaches its maximum between 7 and 30 days*. After this it starts to fade.
- *DWI* is already positive in the acute phase and then becomes more bright with a maximum at *7 days*.
- DWI in brain infarction will be positive for approximately for 3 weeks after onset (*in spinal cord infarction DWI is only positive for one week!*).
- *ADC will be of low signal intensity with a maximum at 24 hours* and then will increase in signal intensity and finally becomes bright in the chronic stage.

# Stroke over time

