Three intracranial haemorrhages

**EXTRADURAL HAEMORRHAGE**

- Dura being lifted off inside of skull by pressure of haematoma
- Blood collection pressing on motor cortex. Note rounded shape
- Fracture at pterion and ruptured middle meningeal artery
- III cranial nerve caught on edge of tentorium cerebelli damaging parasympathetic and giving a dilated pupil on that side

- Cingulate gyrus being pushed under falx
- Falx
- Dura
- Temporal lobe prolapsing under tentorium cerebelli
TYPICAL BERRY ANEURYSMS ON CIRCLE OF WILLIS

Anterior communicating  
Anterior cerebral

Middle cerebral

Internal carotid

Posterior communicating

Posterior cerebral

Vertebral

30% on anterior cerebral  
30% on internal carotid  
25% on middle cerebral  
15% on posterior circulation
SUBDURAL HAEMORRHAGE

Rupture of veins between brain and sagittal sinus giving haematoma beneath the dura. Shape is more diffuse and less rounded than extradural.

III cranial nerve caught on edge of tentorium cerebelli damaging parasympathetic and giving a dilated pupil on that side. Displacement of the brain may lead to signs being paradoxically on the opposite side.

Displacement of hemisphere to other side under falx

Falx
Dura
Temporal lobe prolapsing under tentorium cerebelli