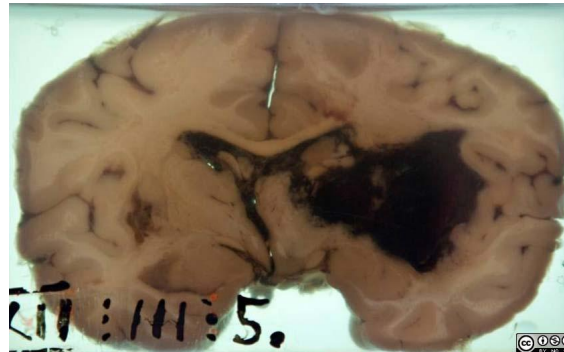


Intracerebral haemorrhage



Digital Pathology Collection

Case 6 2009

Ref. XII:iii:5



Clinical data

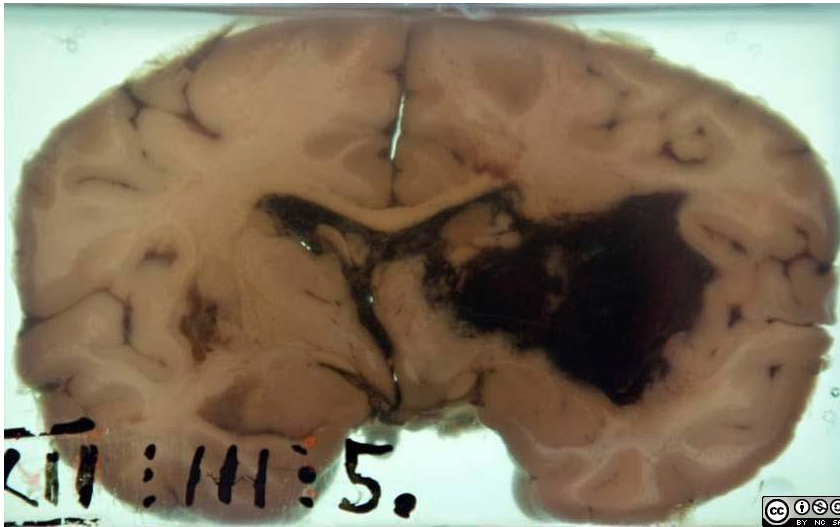
- “Stroke” can occur in a young person, in this case a 20 year old woman.
- She had an undiagnosed vascular disease and hypertension.



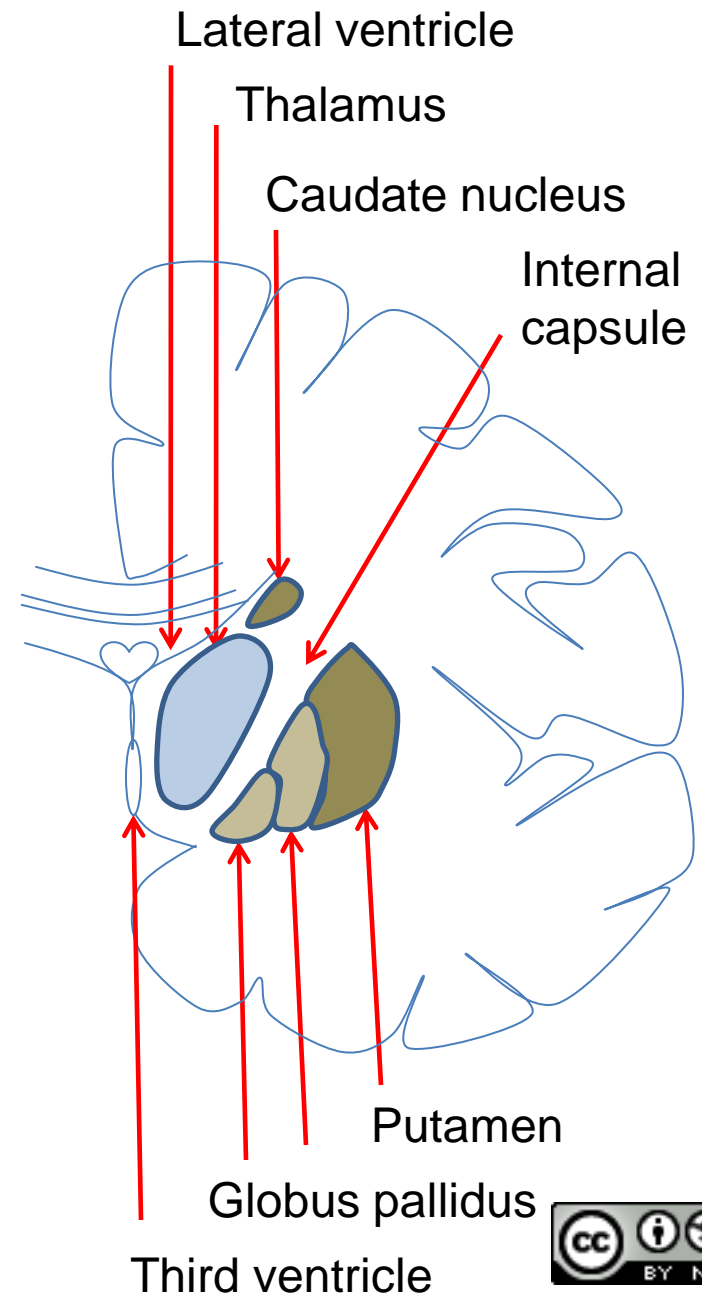
This is a coronal slice from the parietal region of her brain.

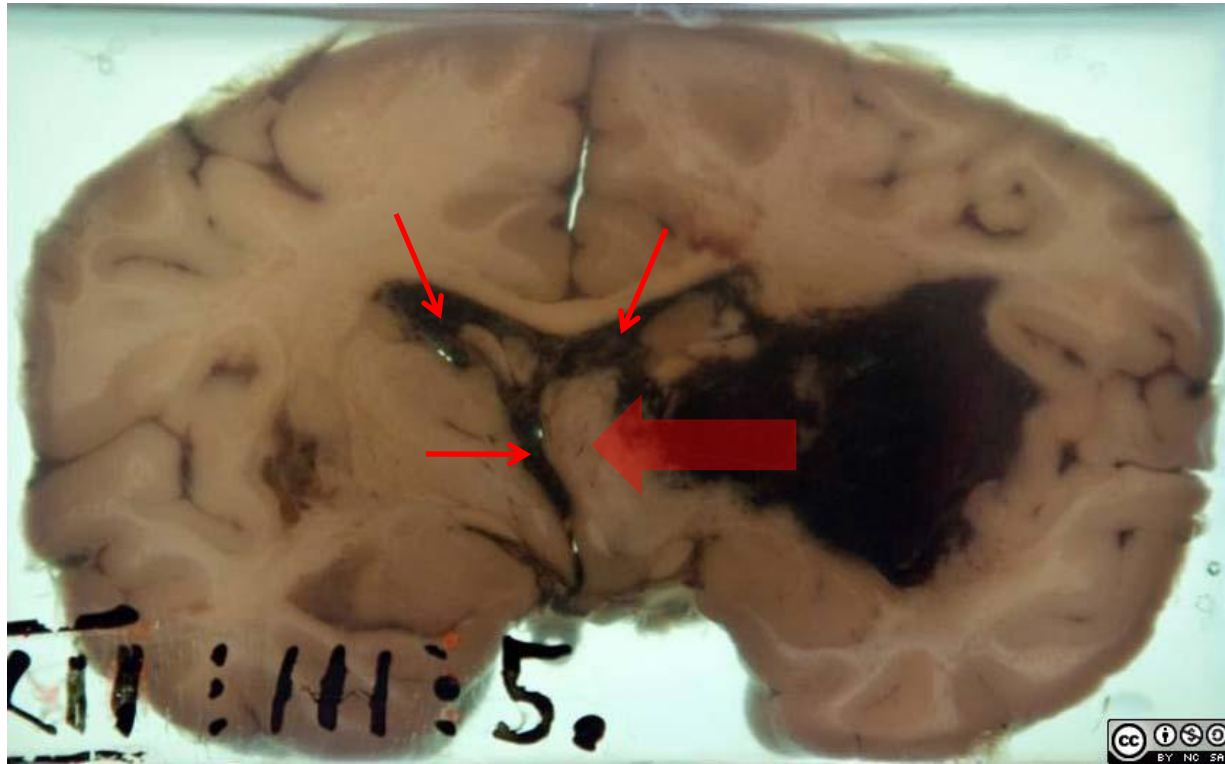


Anatomical location of the lesion



 = basal ganglia

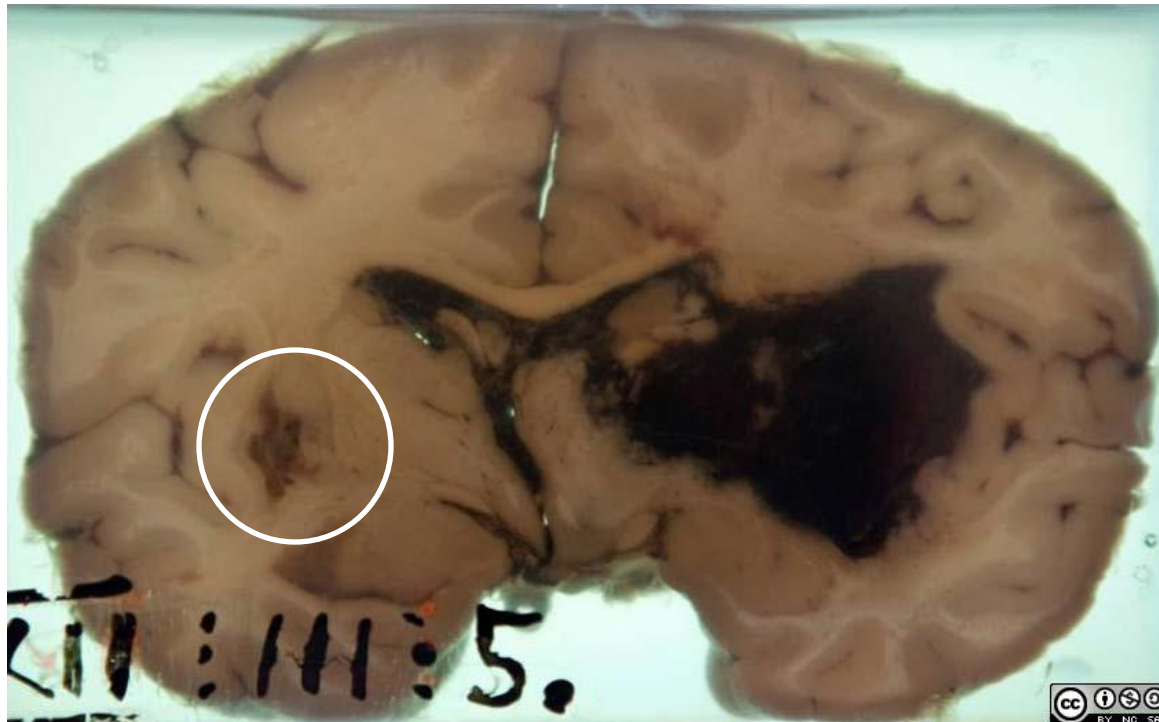




- There is a large right sided haemorrhage in the region of the basal ganglia, specifically the putamen, which is the commonest site for hypertensive haemorrhage.
- The haemorrhage has ruptured into the ventricular system,
- and midline structures are displaced to the left.



- A year before her death the patient had a right-sided hemiparetic attack, which resolved completely.
- On the left side in the region of the specimen in the region of the putamen there is a cystic lesion with brownish discolouration.
- This is the scar of a previous cerebral haemorrhage, which probably accounts for that episode.



Pathogenesis

- Hypertension causes abnormalities in vessel walls.
- In the brain, the **small penetrating arterioles** are affected.
- The changes include **lipohyalinosis** and **fibrinoid necrosis**, which weakens the arteriolar walls. Minute aneurysms (**Charcot-Bouchard aneurysms**) are often formed. The arterioles are vulnerable to rupture.
- In this case a rupture has occurred in one of the penetrating **lenticulostriate branches of the middle cerebral artery**.
- Other common sites for hypertensive bleeds are the thalamus, pons and cerebellar hemispheres.





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