

## Types

- **Ischaemic stroke** (risk factors = age, AF, diabetes, hypertension, obesity, hypercholesterolemia, smoking, obesity, family history)
  - Total anterior circulation stroke (TACS) 3/3
  - Partial anterior circulation stroke (PACS) 2/3
  - Lacunar stroke (LACS) 1/3
  - Posterior circulation stroke (POCS) – vertebrobasilar arterial system occlusions
    - Occipital → isolated homonymous visual field defect
    - Cerebellar → ipsilateral cerebellar signs
    - Brainstem → ipsilateral cranial nerve palsies, bilateral sensory/motor deficit, disorder of eye movements
- **Intracerebral haemorrhage** (risk factors = age, anticoagulation, alcohol, hypertension, stress, smoking)

## Possible clinical features by vascular territory

### MCA/branch occlusion (most common)

*MCA supplies the lateral cerebral cortex: lateral frontal lobe, lateral parietal lobe, superior temporal lobe*

- Contralateral lower facial hemiplegia
- Contralateral hemiplegia (arm + leg)
- Contralateral sensory loss (face + arm + leg)
- Contralateral homonymous hemianopia
- Dysphasia (dominant hemisphere)
- Contralateral neglect (non-dominant hemisphere)

### ACA occlusion

*ACA supplies the medial cerebral cortex: medial frontal lobe (leg part of homunculus), superior-medial parietal lobe*

- Contralateral hemiplegia (leg > arm)
- Contralateral sensory loss (leg > arm)
- Apraxia

### Vertebrobasilar system occlusions

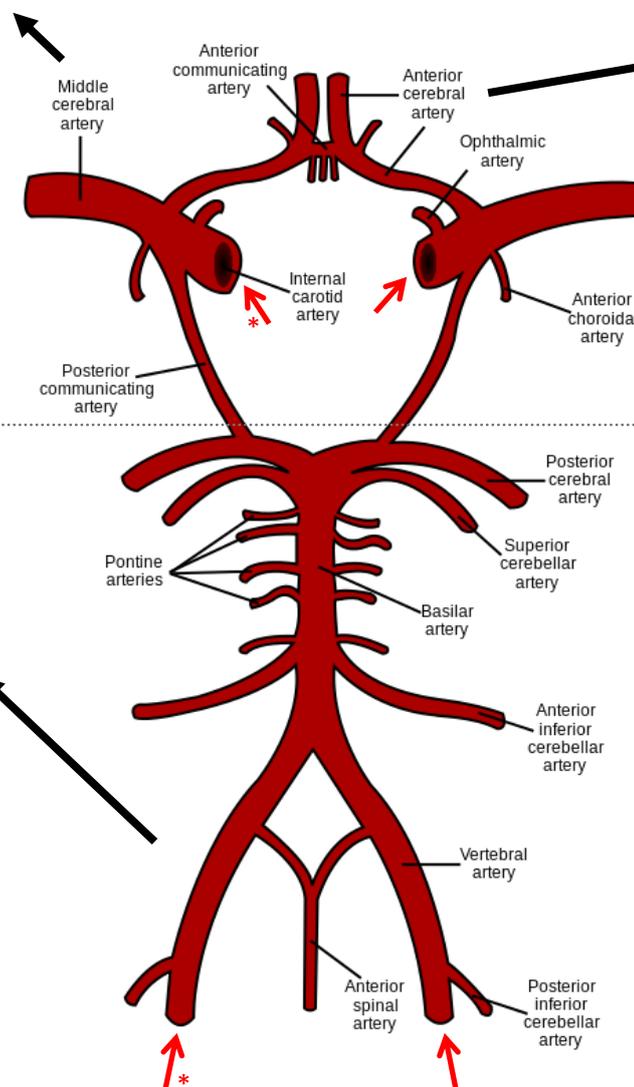
*Vertebrobasilar artery system supplies: brainstem, cerebellum, PCA*

- Many syndromes depending on location of occlusion  
e.g. lateral medullary (Wallenberg) syndrome of vertebral artery/PICA:
- Ipsilateral cerebellar signs
  - Ipsilateral Horner's syndrome
  - Anaesthesia to pain & temperature on ipsilateral face and contralateral body
  - Ipsilateral bulbar muscle weakness

### PCA occlusion

*PCA supplies the posterior cerebral cortex: occipital lobe, thalamus, inferior temporal lobe*

- Contralateral homonymous hemianopia
- Sensory impairment
- Involuntary movements



\*Remember: carotid artery dissection is a cause of anterior circulation stroke and vertebral artery dissection is a cause of posterior circulation stroke (think about dissection if there is neck pain, the patient is young or there is associated trauma)

## Investigations and Management

- See [acute management of stroke](#) page