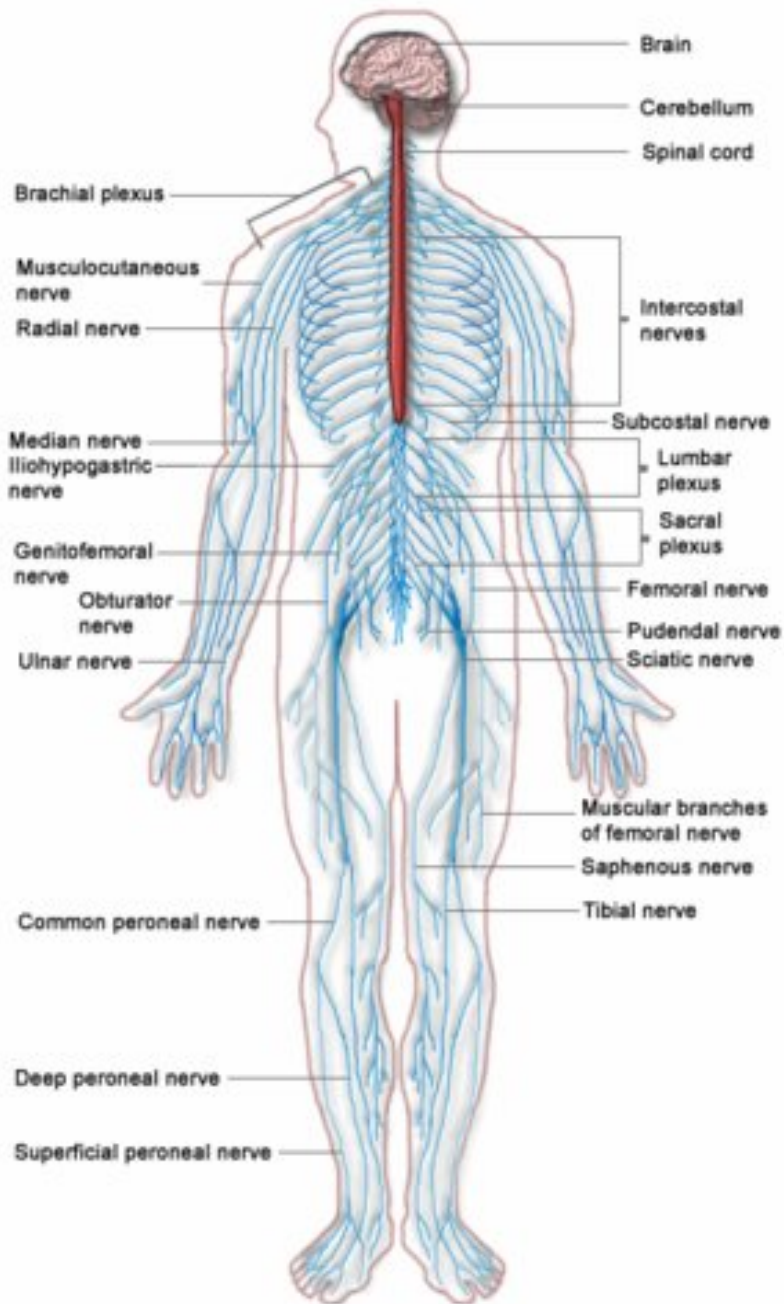


Vasculitis of the brain and nerve

Alasdair Coles

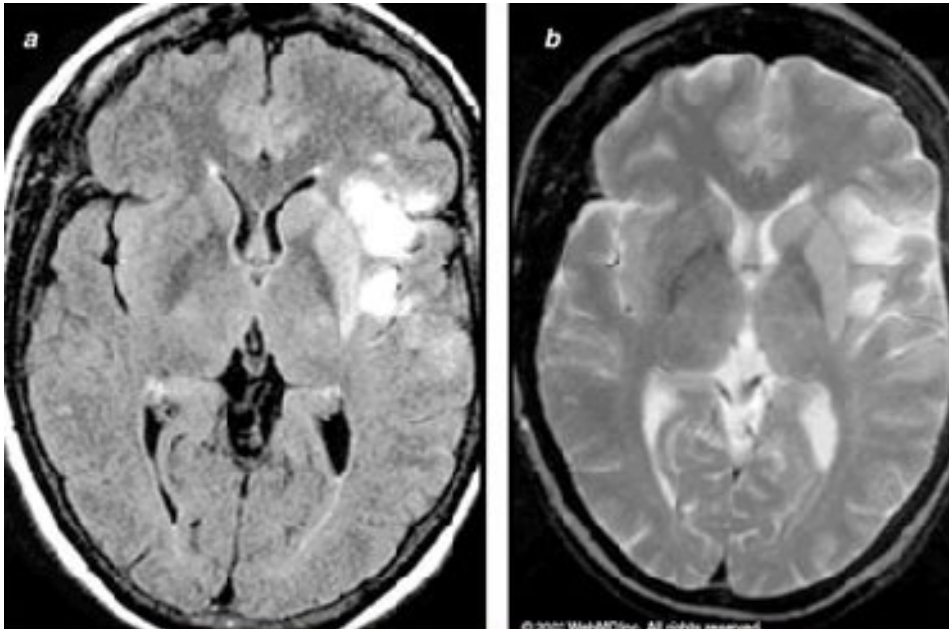
Cambridge



Vasculitis affects

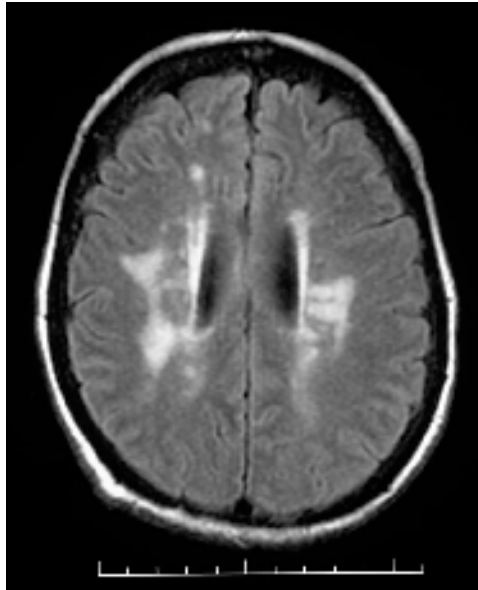
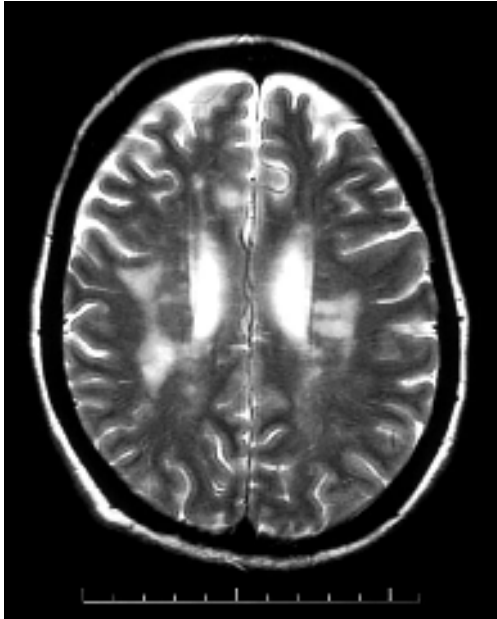
- Brain
- Individual nerves in the limbs
- (Not the spinal cord)
- (Not the autonomic nervous system)

Vasculitis in the brain



Stroke

- No pain
- Sometimes no symptoms
- Sudden onset
- Seizures
- Weakness
- Numbness
- Incoordination
- Memory loss
- Etc etc etc etc



Vasculitis in the brain

Inflammation of the brain
substance

Gradual onset

Sometimes no symptoms

Seizures

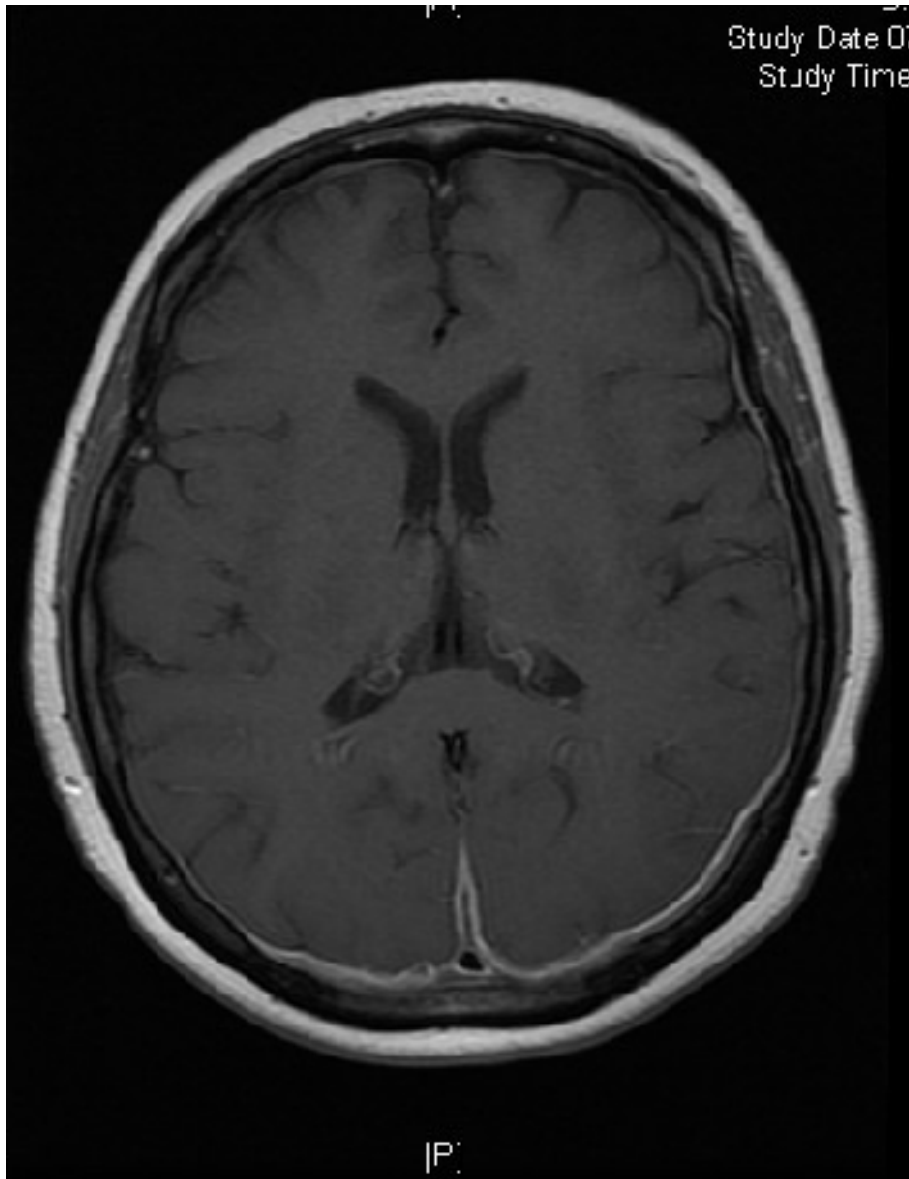
Weakness

Numbness

Incoordination

Memory loss

Etc etc etc etc

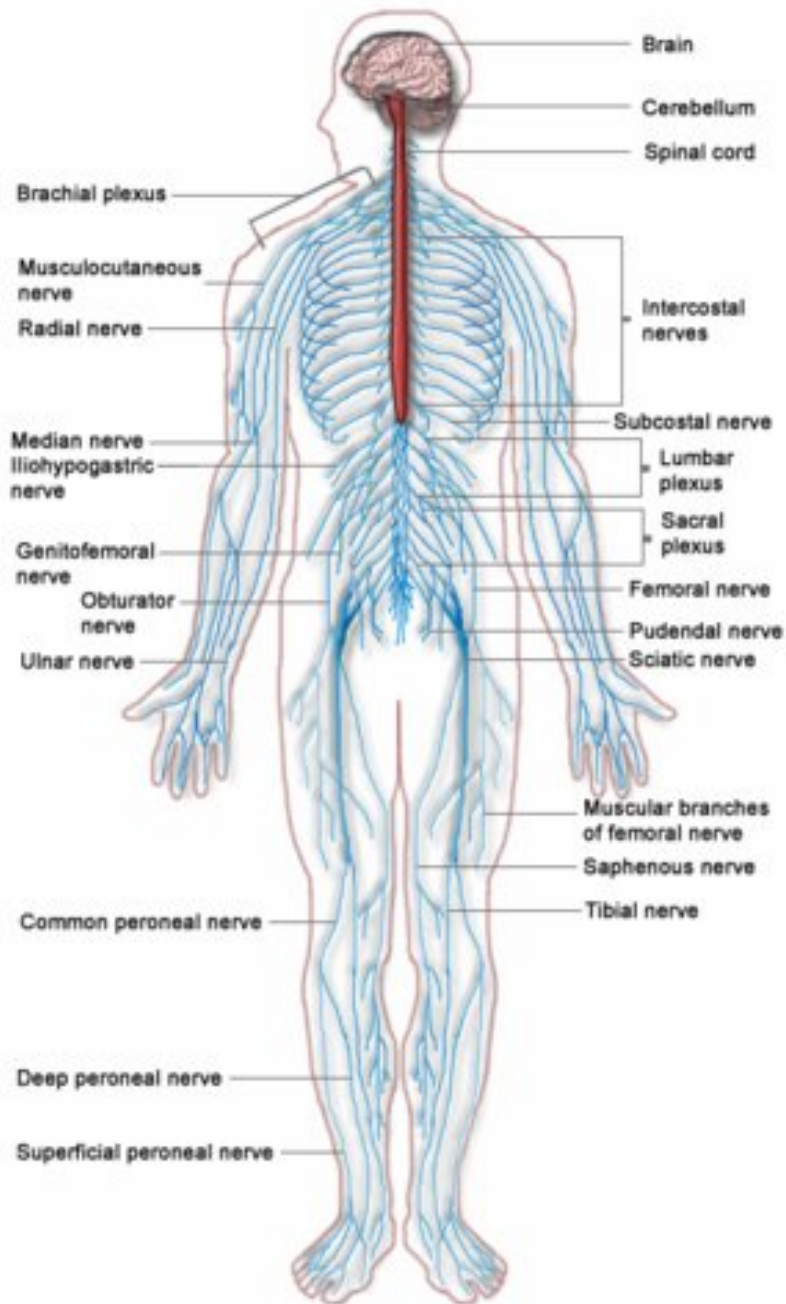


Vasculitis in the brain

Meningeal vasculitis

- Sometimes no symptoms
- Headache
- Individual nerves damaged as leave brain

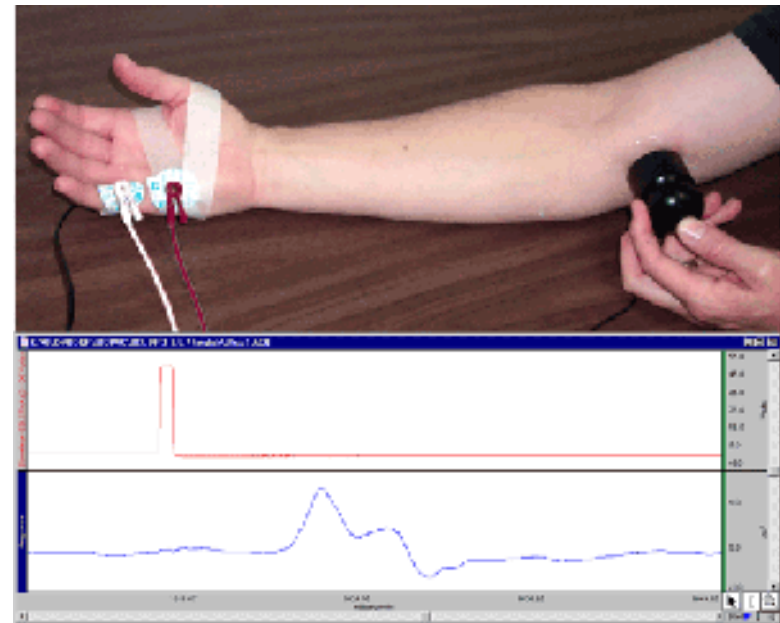




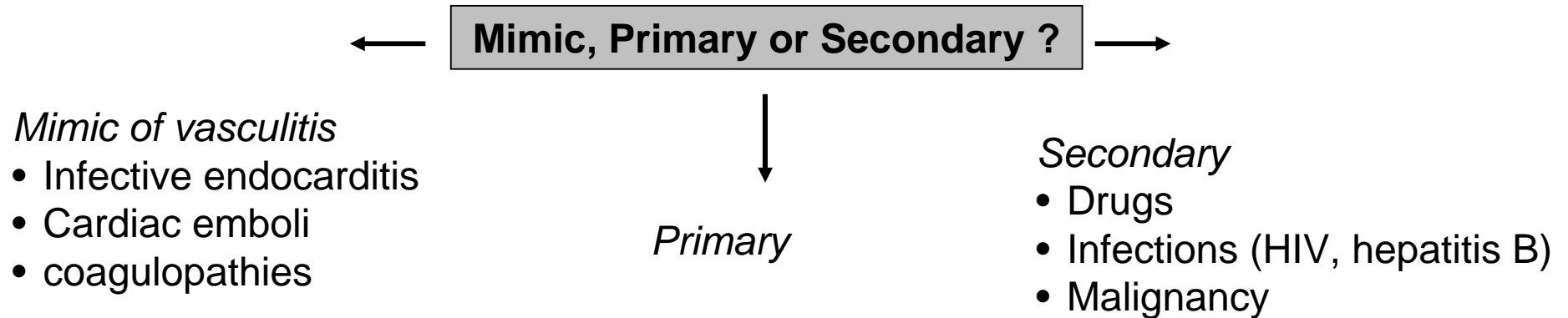
Vasculitis of the peripheral nerves

Mononeuritis multiplex

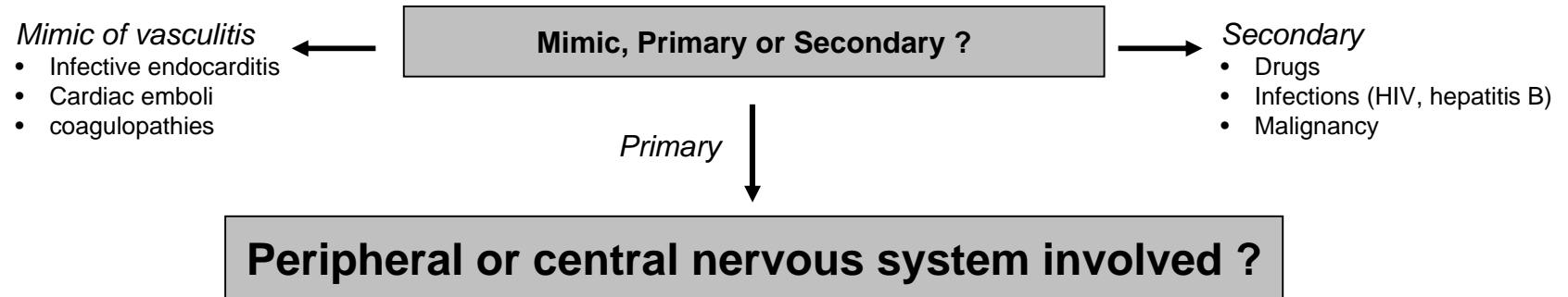
- Pain
- Weakness
- Numbness



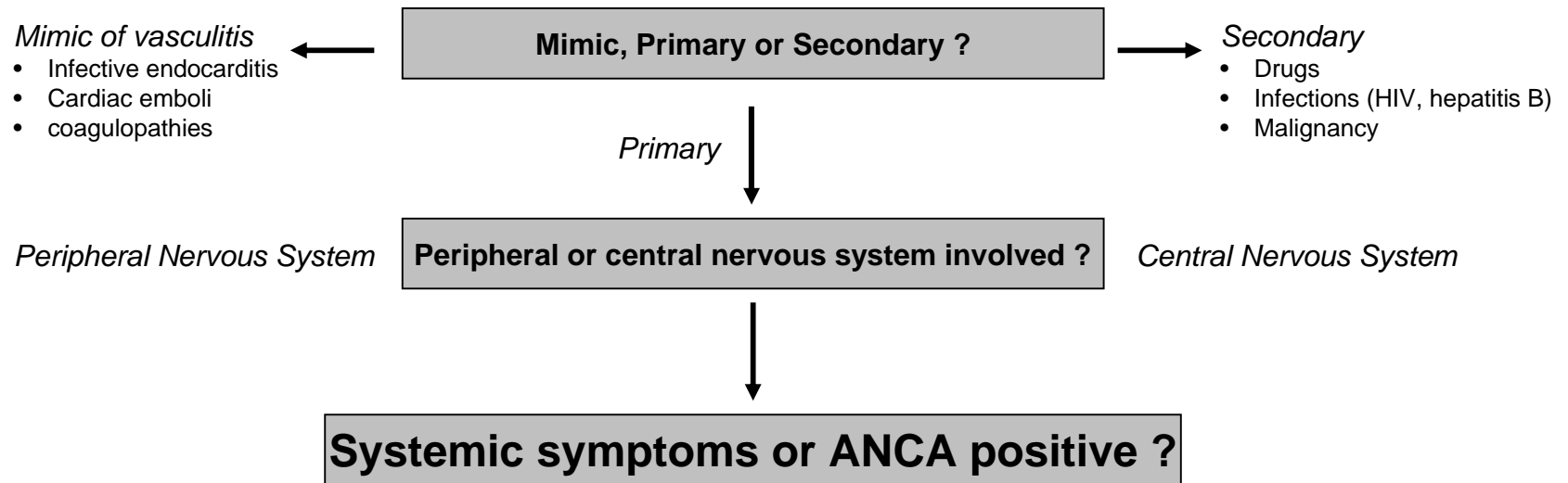
Classification of vasculitides affecting the adult nervous system



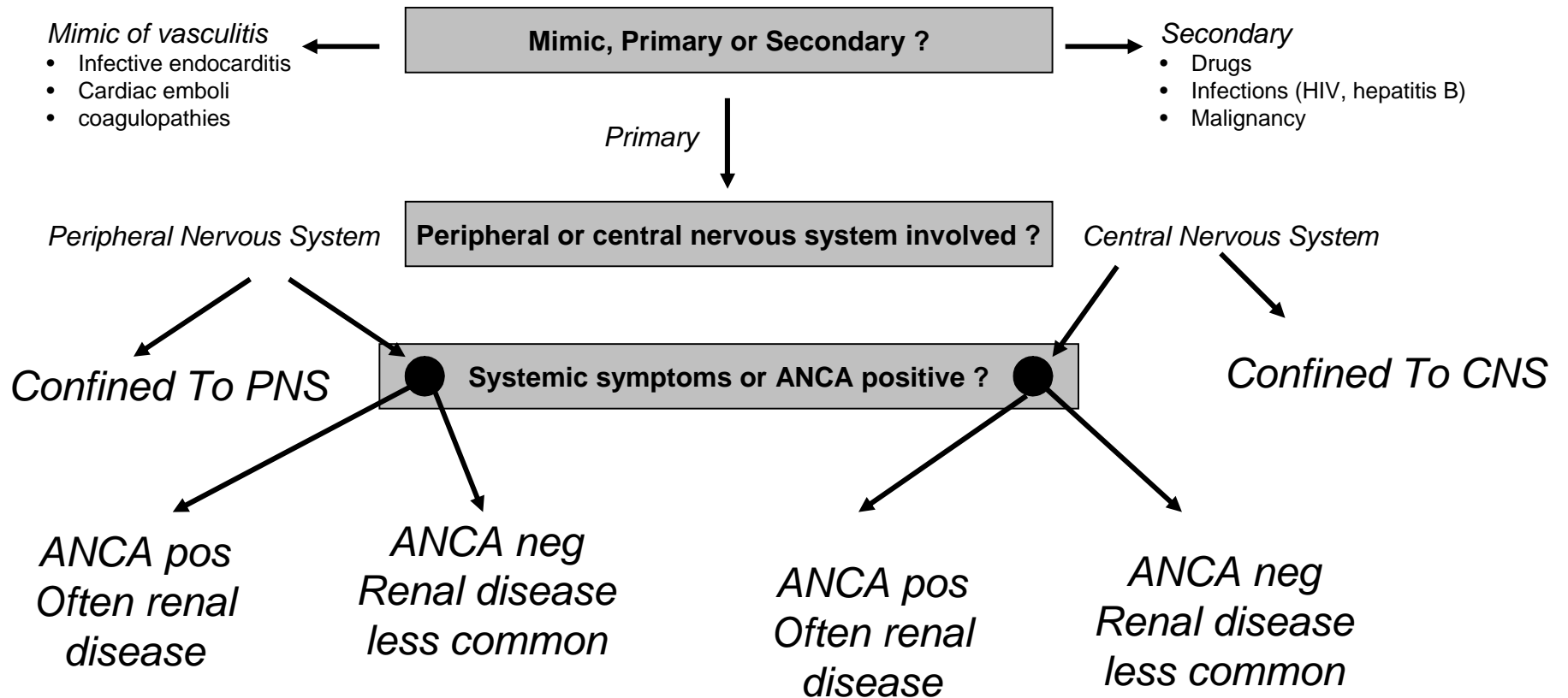
Classification of vasculitides affecting the adult nervous system



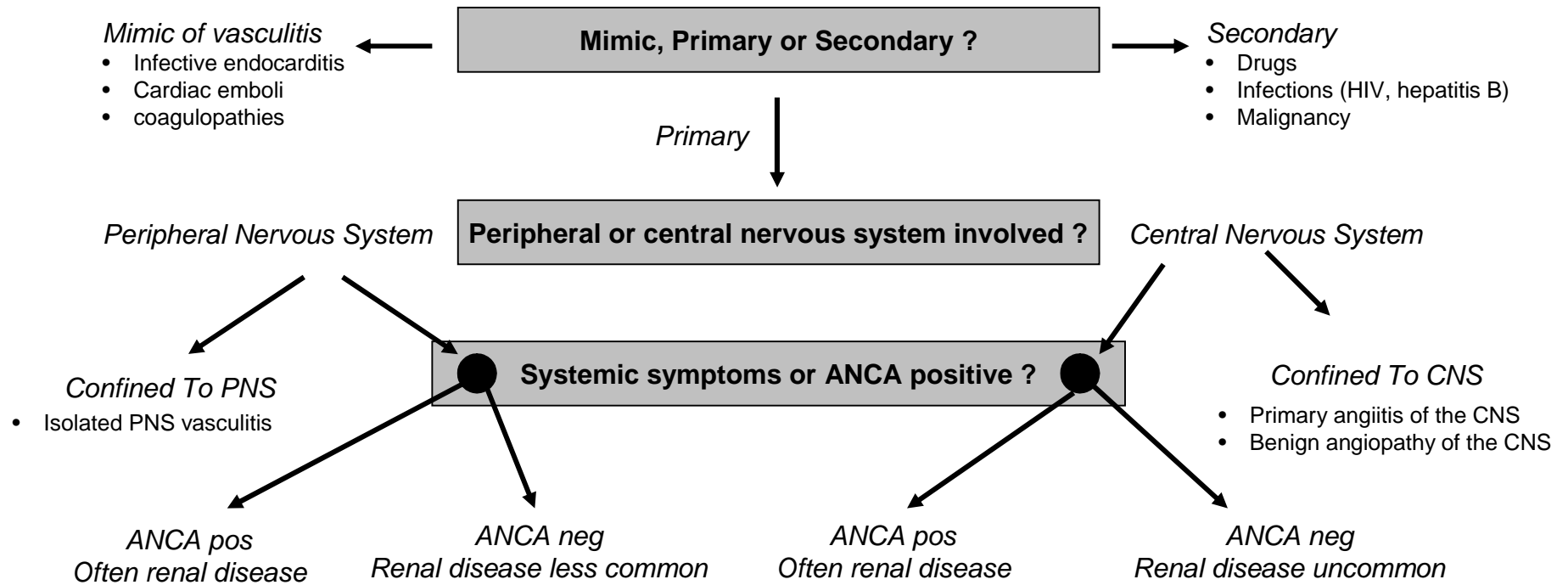
Classification of vasculitides affecting the adult nervous system



Classification of vasculitides affecting the adult nervous system



Classification of vasculitides affecting the adult nervous system



PNS involvement common in:
p-ANCA positive (MPO positive)

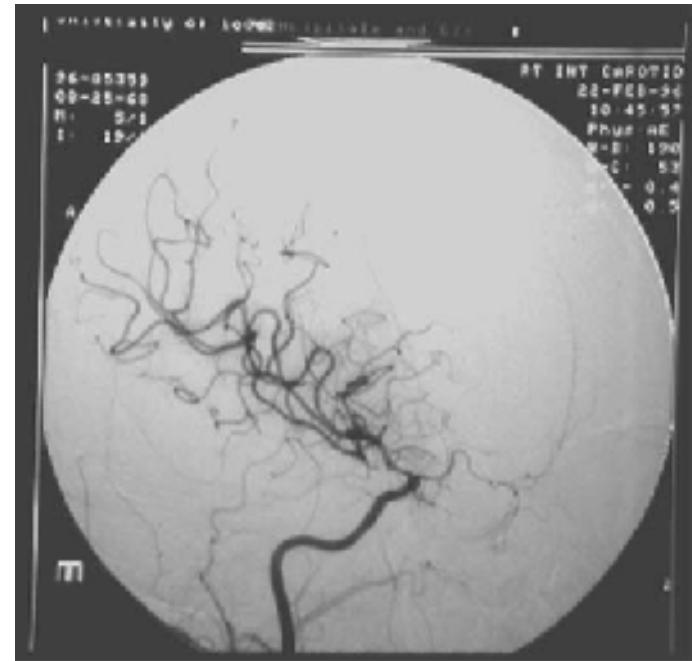
- **Churg-Strauss**
- **Poyarteriits nodosa**
- **Wegener's granulomatosis** (PNS in 15% of cases)
- **Microscopic polyangitis (30%)**

- **Rheumatoid arthritis**
- **SLE**
- **Sjogren's**
- Churg-Strauss and Poyarteriits nodosa (majority have PNS disease) can be ANCA negative

CNS involvement seen, but not common, in C-ANCA positive (PR3 positive)

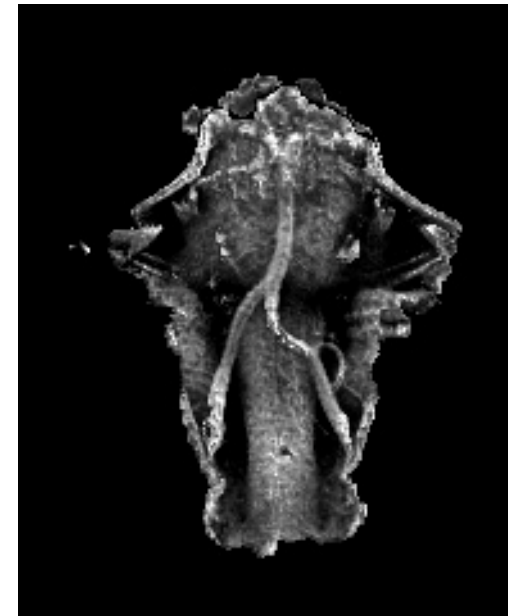
- **Wegener's granulomatosis** (CNS involvement 8% of cases)
- **Microscopic polyangitis** (CNS involvement very rare in Churg-Strauss and Poyarteriits nodosa)

- **Giant cell arteritis**
- **Behcet's**
- **Hencoh-Schonlein**
- **Kawaski**
- **Cogan**
- **Takayasu**
- (CNS lupus is not usually vasculitic)



Cerebrospinal fluid drawn from between two vertebrae





Intracranial MRA

Extracranial MRA

