Other Aneurysms/Dissections

See also Abdominal Aortic Aneurysms, Aortic Dissection, SAH articles.

Aneurysms

- True aneurysms:
 - o 50% increase in the normal diameter of the vessel.
 - o Symmetrically wall ballooning (fusiform) or local 'blow-out' (saccular) aneurysm.
 - o Sites: iliac artery, popliteal artery, femoral artery, splenic, hepatic.
- False aneurysms:
 - o Collection of blood, held around the vessel by a wall of connective tissue.
 - o May occur following trauma or following angiogram, angioplasty or graft site.
 - o False aneurysms present as pulsatile mass & may eventually rupture / →thrombosis

Aetiology

- Atherosclerosis / degeneration
- Vasculitis (e.g. Kawasaki's disease)
- Infective incl syphilis

- Penetrative or blunt trauma
- Congenital (e.g. Berry aneurysm)
- Cocaine use

Sites of Aneurysms

- Thoracic aortic aneurysms (<10% of aortic aneurysms):
 - \circ Most asymptomatic but may \rightarrow chest, back/neck pain; dyspnoea, stridor or cough
- Popliteal aneurysms:
 - o 80% of all peripheral aneurysms. Assoc with aortic aneurysms & often bilateral.
 - Symptoms from thrombosis, embolisation or compression of adjacent structures.
- Femoral aneurysms:
 - Second commonest peripheral aneurysm.
 - o Pulsatile groin mass can, or thrombosis, embolisation or compression symptoms.
- Hepatic artery aneurysms:
 - o Commonest visceral aneurysm, assocs: atherosclerosis, trauma, infection (IVDU).
- Splenic artery aneurysms:
 - o Less than 40% of all visceral aneurysms. 4F:1M.
 - o Rupture in 25%. Common in 3rd trimester of pregnancy with high mortality.
- Renal artery aneurysms:
 - May be found in 1% of adults & are usually asymptomatic.

Dissections

- Carotid dissection:
 - Most cases idiopathic, occ with neck trauma or manipulation.
 - \circ Many occur extracranially in ICA and with vertebral artery dissection \to CVA
 - Clin: headache, ipsilat neck/facial pain. Transient blindness, syncope, swelling neck and pulsating tinnitus. Neuro deficits, Horner's (50%), hemiparesis, carotid bruit.

Investigations

- Peripheral/visceral: CT Angio, MRI, USS. LV aneurysm: echo, angi, scintigraphy.
- If ?vasculitis and connective tissue disorders: ESR, CRP and autoantibody profile

Management

- ABCs, O2, d/w surgeons operative intervention.
- Prevention: Primary and secondary prevention of cardiovascular disease.