

VASCULAR TUMOURS

- benign

- infantile haemangiomas
- congenital haemangiomas (RICH, NICH and PICH)
- tufted angioma (with or without Kasabach Merritt syndrome)
- spindle cell haemangioma (haemangioendothelioma)
- epithelioid haemangioma
- pyogenic granuloma

- locally aggressive or borderline◦

Kaposiform haemangioendothelioma (with or without Kasabach Merritt syndrome)

- retiform haemangioendothelioma
- composite haemangioendothelioma
- papillary intralymphatic angioendothelioma (Dabska tumour)
- Kaposi sarcoma

- malignant◦

angiosarcoma

- epithelioid haemangioendothelioma

- others◦

polymorphous haemangioendothelioma

- targetoid haemangioma
- glomeruloid haemangioma
- microvenular haemangioma

1. INFANTILE HAEMANGIOMA

Commonest soft tissue tumour of childhood;

Not present at birth, clinically apparent later; involute

Most=focal nodules; Others=plaques if segmental

NODULAR HAEMANGIOMATA:

Stage 1: Rapid proliferation (first 6 months)

-Superficial dermis: strawberry naevus (bright red, lobulated)

-Deep dermis: swelling with blueness or no discolouration

Stage 2: Slow growth until 12 months

Stage 3: Involution (50% by 5 yrs/70% by 7 yrs/90% by 9 yrs) leaves residual skin changes

SEGMENTAL HAEMANGIOMATA: Plaque-like involving larger area of skin

SUBGLOTTIC: neck and beard area; follow for 12-16 weeks as 60% risk of airway haemangioma

PAROTID: pre-auricular plus parotid gland haemangioma

PHACE: *posterior fossa, haemangioma, arterial anomalies, coarctation of aorta, eye abnormalities*

Segmental haemangioma on face (upper/forehead) in almost exclusively females

Diagnosis:

Clinical history and examination

Imaging for underlying abnormalities (MRI for neuro, ECHO or angio for cardiac)

US: well defined, echogenic, highly vascular, larger central feeding arteries and draining veins

MRI: well lobulated tumour isotense/hypotense vs muscle on T1, hyperintense on T2

Biopsy rarely required; express GLUT-1

Management:

Indications: disfigurement or mass effect (visual axis/airway)

B-blockers first line; particle embolization to reduce vascularity until involutes (if large w/HOCP)

Surgery: early in proliferative phase if mass effect; later if involuted for cosmesis

2. CONGENITAL HAEMANGIOMA

Fully formed at birth and involute rapidly (RICH), never (NICH) or partially (PICH)

Difference to IH: natural history as above, immunohistochemically, histologically (no GLUT-1)

Coagulopathy when large

3. PYOGENIC GRANULOMA ie lobular capillary haemangioma

Second commonest vascular tumour

Head and neck; red papule; grows rapidly, ulcerates and bleeds

4. TUFTED ANGIOMA

Neck or upper trunk; red or purple patch; slow-growing and may resolve

GLUT-1

5. KAPOSIFORM HAEMANGIOENDOTHELIOMA (KSE)

Trunk, shoulder, thigh; reddish discolouration

GLUT-1

**TA and KSE associated with Kasabach-Merritt phenomenon (severe coagulopathy, thrombocytopenia, variety of soft tissue lesions)