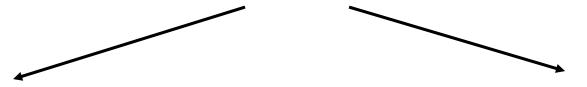
Some benign tumors

Prof. J. Hewavisenthi Professor of Pathology University of Kelaniya

Benign tumors



Epithelial tumors

Papilloma

Adenoma

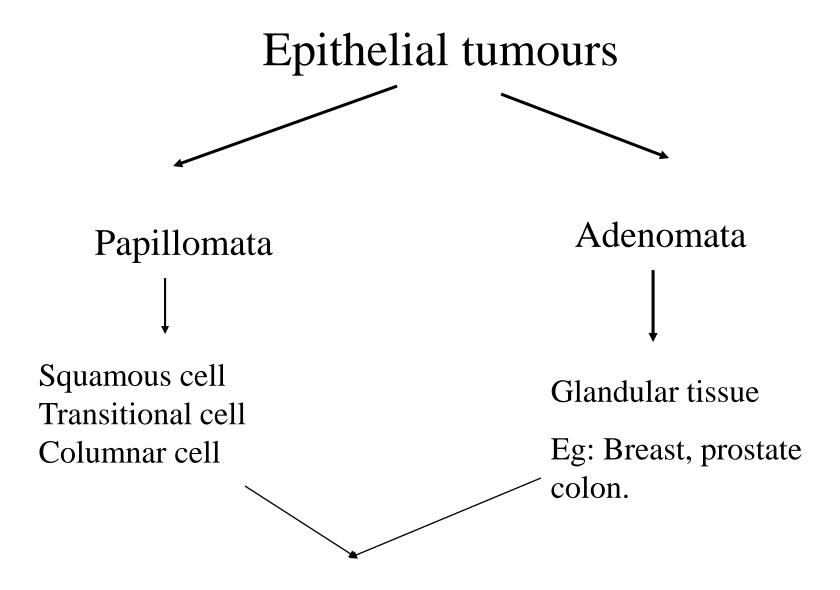
Connective tissue tumors

Fibrous tissue

Smooth muscle

Nerve tissue

Adipose tissue

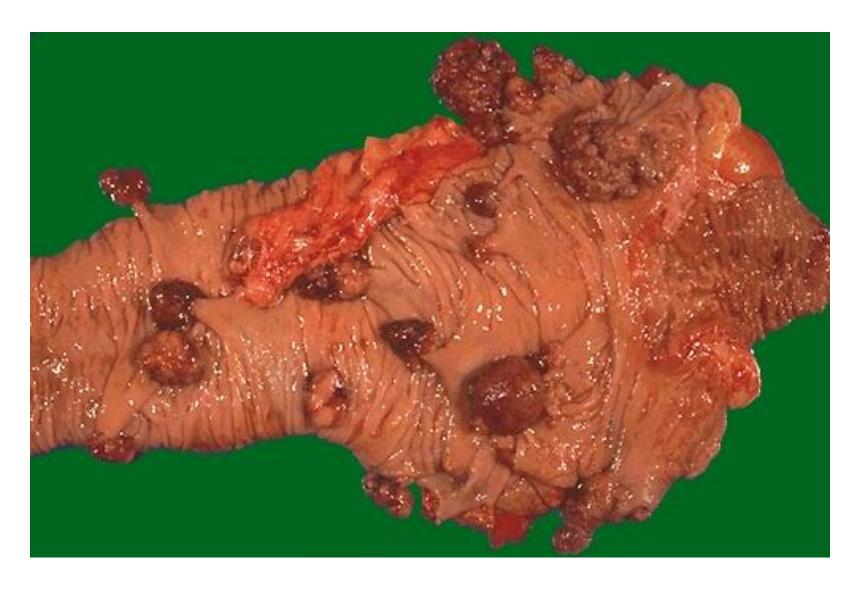


Variants: Papillary cystadenoma, Eg: Breast, GB

Papillomata (polyps)

- Benign tumours of an epithelial surface which appears elevated, warty a finger-like projection.
- Macroscopically
 - Sessile
 - Pedunculated

Polyps in the colon



Papillomata

Columnar cell papilloma

- Colon
- (But is referred to as Tubular, villous, tubulovillous polyps/adenomatous polyps)
- Transitional cell papilloma
- Bladder

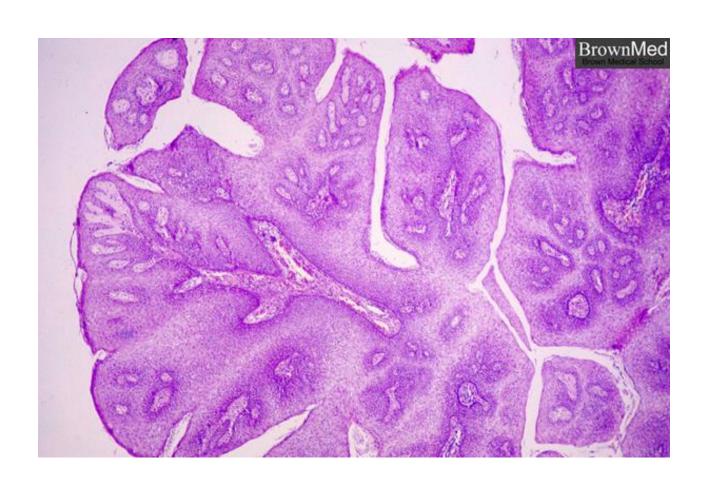
Squamous papilloma

- Skin

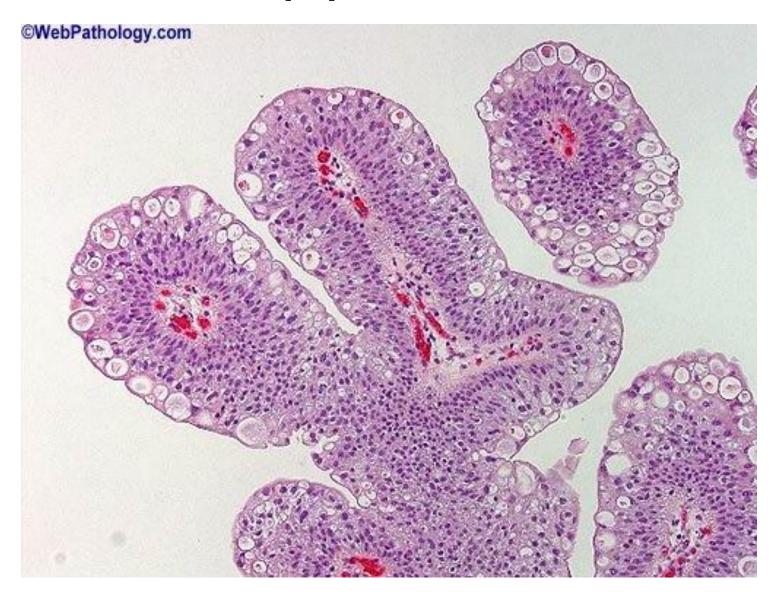
- Verruca vulagaris)
- Epithelial naevus)
- heterogenous group/.

Basal cell papilloma)

Squamous cell papilloma

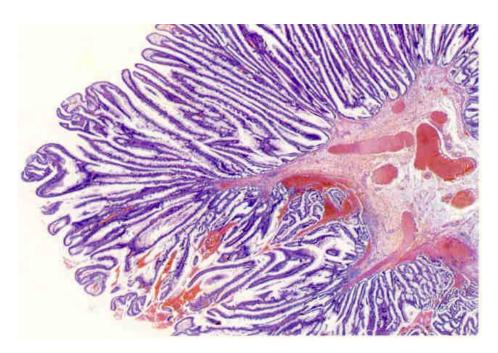


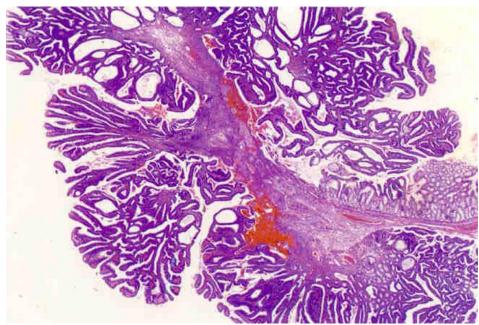
Transitional cell papilloma of the bladder



Adenoma

- Arising in glands opening directly onto a surface epithelium leads to a polyp formation. Eg: Colon
- Arising at a distance from a surface assumes a spherical / nodular form with a fibrous capsule. Eg: Breast, prostate and endocrine organs.





Variants of adenomata

Cystadenoma

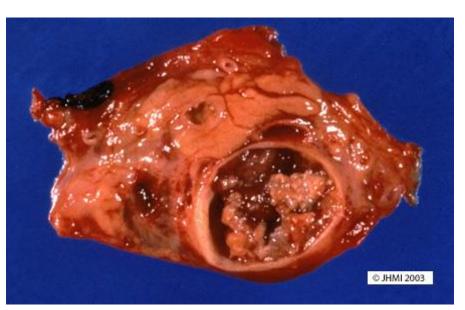
• Papillary cystadenoma

- Mixed tumours
 - Fibroadenoma

Cystadenoma

- Formation of cystic spaces.
- Essentially and adenoma

Papillary cystadenoma



- Formation of papillary ingrowths into a cystic space.
- Eg: Ovary serous, mucinous.

Pancreas

Appendix

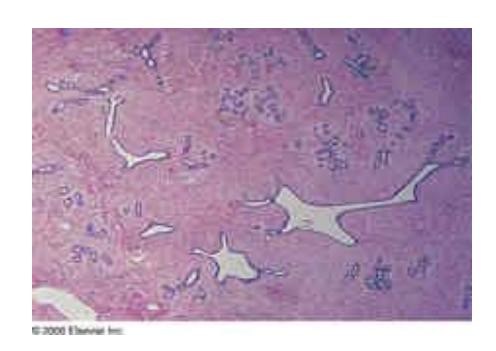
Salivary gland

FIBROADENOMA OF THE BREAST



Fibroadenoma of the breast

- Glands set in a fibrous stroma - mixed tumour Fibroadenoma
- Pericanalicular soft
- Intracanalicular hard.
 (more fibrous
 tissue compressing the glands)



Connective tissue tumors - Fibrous tissue

• **Fibroma** collection of fibroblasts and collagen.

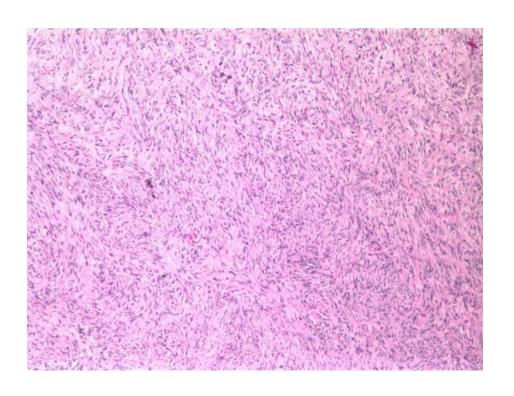
- Hard fibroma Fibroma durum
- Soft fibroma Fibroma molle (intermixed with adipose tissue)

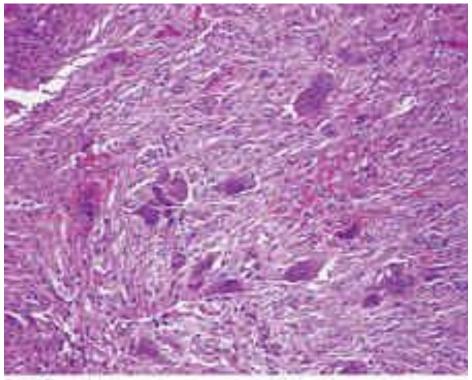
Benign fibrous tissue tumours / Tumour - like conditions-Fibromatosis

- Superficial fibromatosis
 - Palmar fibromatosis Dupytrens
 - Plantar fibromatosis Ledderhous disease
 - Penile fibromatosis Peyronies disease.
 - Juvenile fibromatosis
- Desmoid tumor anterior abdominal wall
- Deep fibromatosis
 - Mesentric fibromatosis) Gardeners
 - Retroperitoneal fibromatosis)
 Syndrome

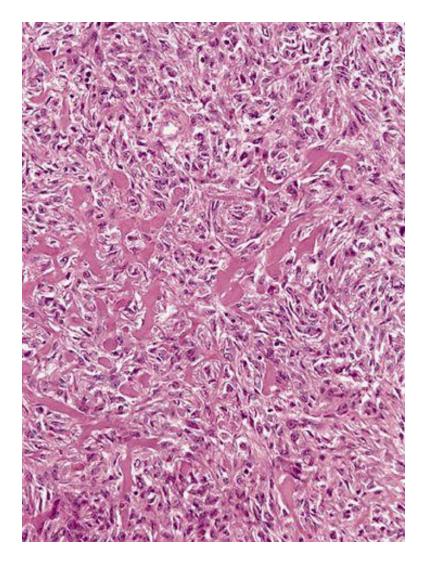
Tumours of Fibrohistiocytic origin

- Histiocytoma
- Fibrous histiocytoma
- Dermatofibroma
- Reticulohistiocytoma
- Juvenile xanthogranuloma

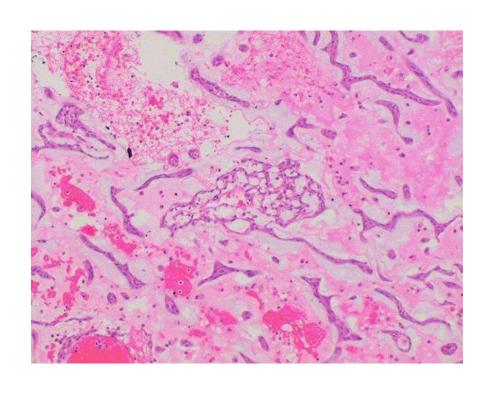




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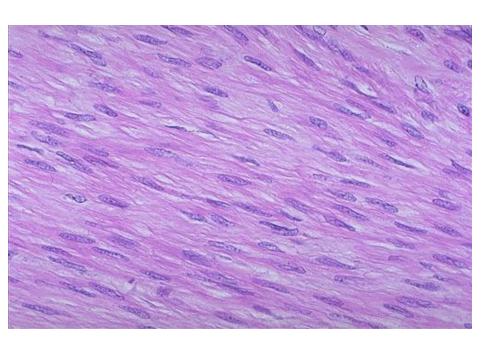


Myxoma



- Circumbscribed, oval spherical
- C/S translucent grey shiny and glistening
- Uncommon tumour
- Jaw, Heart, soft tissue
- Origin Fibroblasts not differentiated to form collagen.
- Myxoid degeneration in other tumors

Benign tumors of muscle (Myoma)



- Rhabomyoma (skeletal muscle)
 Uncommon, occurs in
 young children in
 Tuberous sclerosis.
- Leiomyoma
 (smooth muscle)
 uterus

 (Fibroid) Intestine

 skin

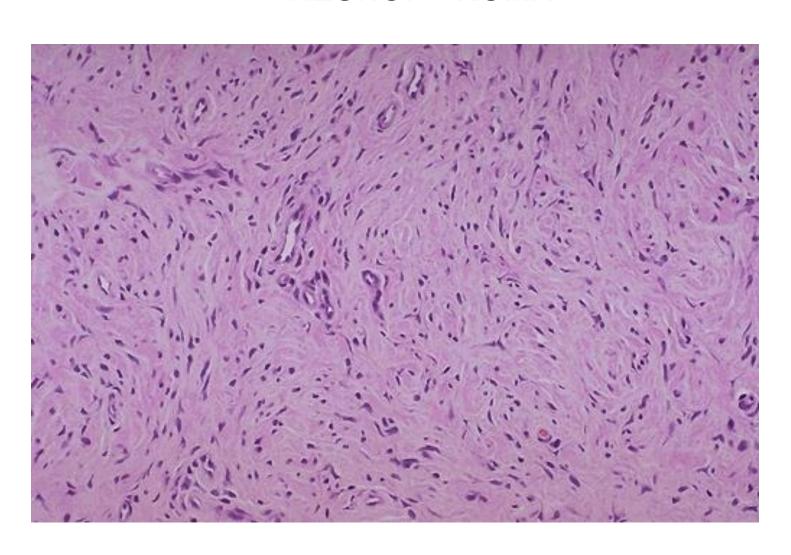
Benign tumors of nerve

• Neurofibroma - Arise from schwann cells and intervening nerve tissue.

Nerve fibers pass through the nerve - diffuse enlargment.

- Multiple Von Recklighausens disease
- Microscopy spindle cells with wavy / serpiginous nuclei

NEUROFIBROMA

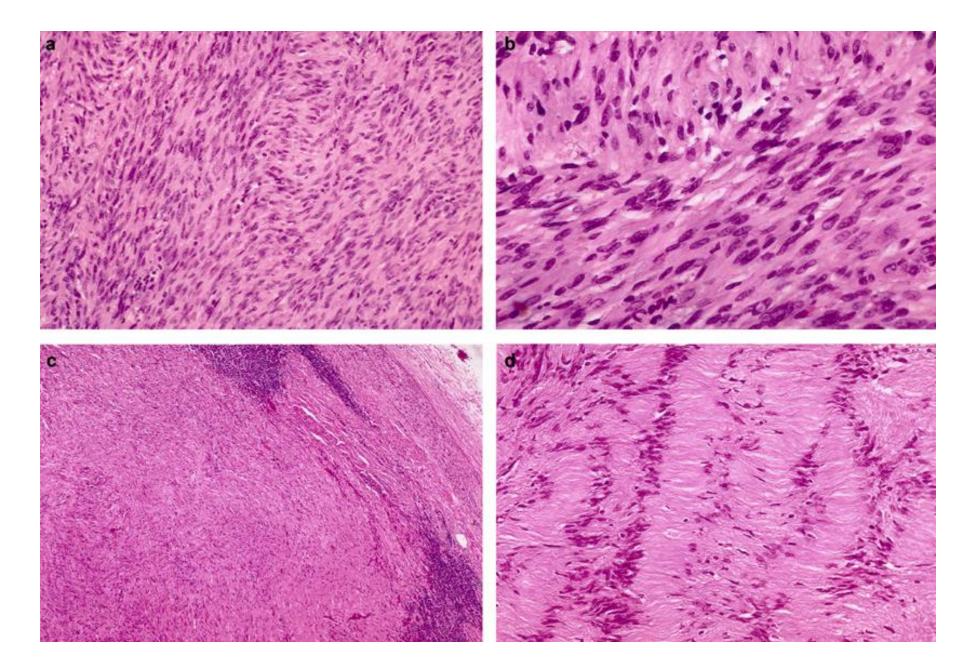


Benign tumors of nerve - Schwannoma

- Macroscopy -
 - Encapsulated
 - Arising focally on nerve nerve stretched over it.
 - Soft and grey.

Benign tumors of nerve - Schwannoma

- Microscopy -
 - Cells arranged in compact fascicles or whorls with nuclear palisading.
 - Verocay bodies
 - Anotoni B type areas cystic and loosely arranged
 - Hyalinized blood vessels.

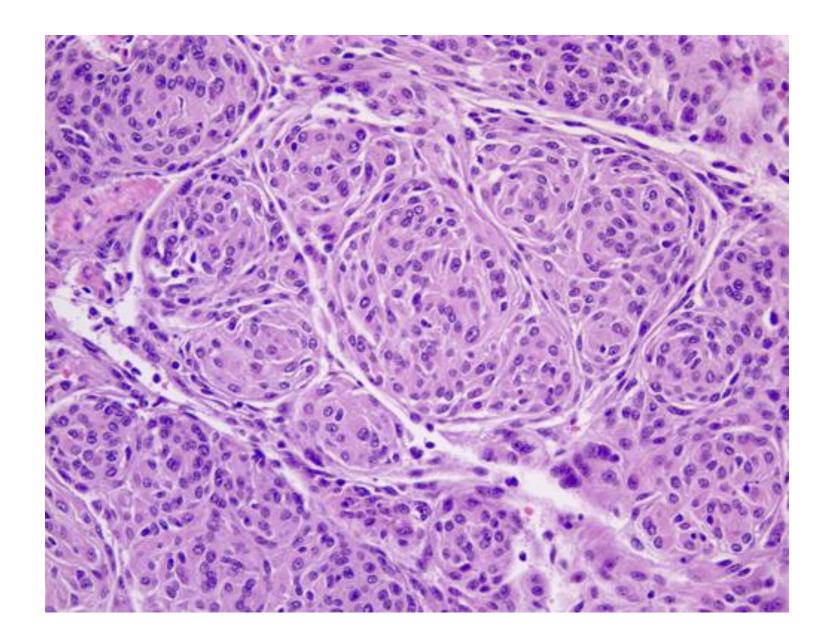


Benign tumors of the meninges - Meningioma

 Arise from meningeal cells lying deep to the dura and arachnoid granulations

Superior sagital sinus,
 Falx cerebri.

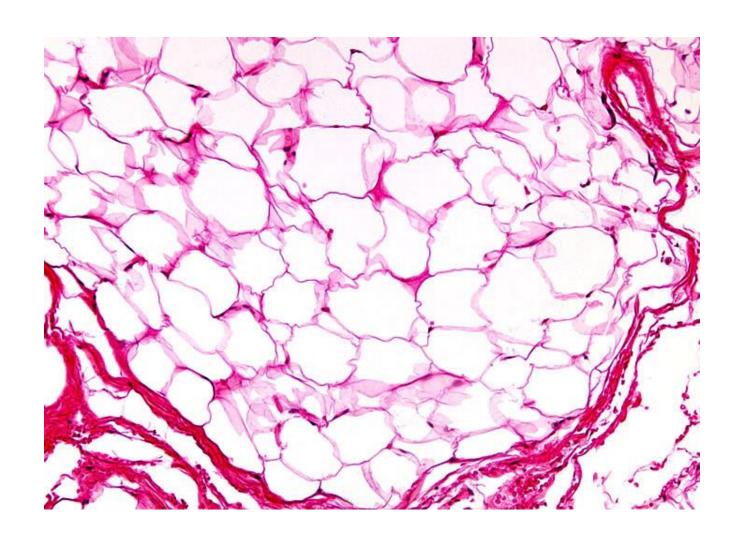




Benign tumors of adipose tissue - Lipoma

- Lobulated. Yellow (fatty) Encapsulated (thin)
- Microscopy lobulated adipose tissue
- Subcutaneous,
 Intramuscular,
 Retroperitoneal,
 intestinal, Subserosal





Benign tumors of Bone

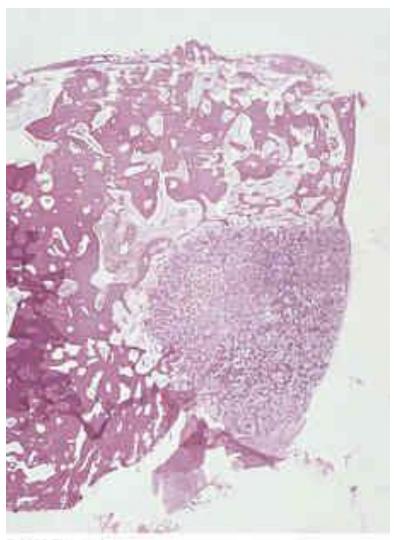
- Cartilage
 - Enchondroma
 - Ecchondroma
- Mature bone
 - Compact bone Osteoid osteoma
 - Cancellous bone osteoma osteoblastoma.

Chondroma and Osteochondroma

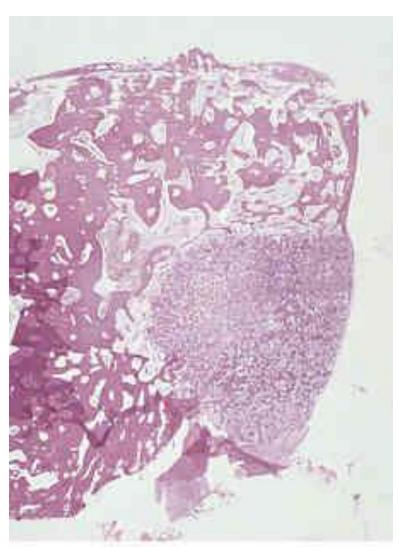


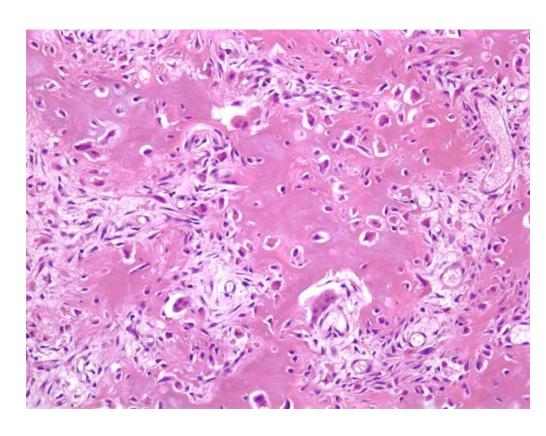
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Benign tumours of blood vessels

- Varying types of haemangiomas the commonest being the pyogenic granuloma also known as the lobular capillary haemangioma
- Regarded as a hamartoma by some

