Principles of pathology (General pathology)

Practical slides

Cell Injury and Response

Cell Injury/ Response

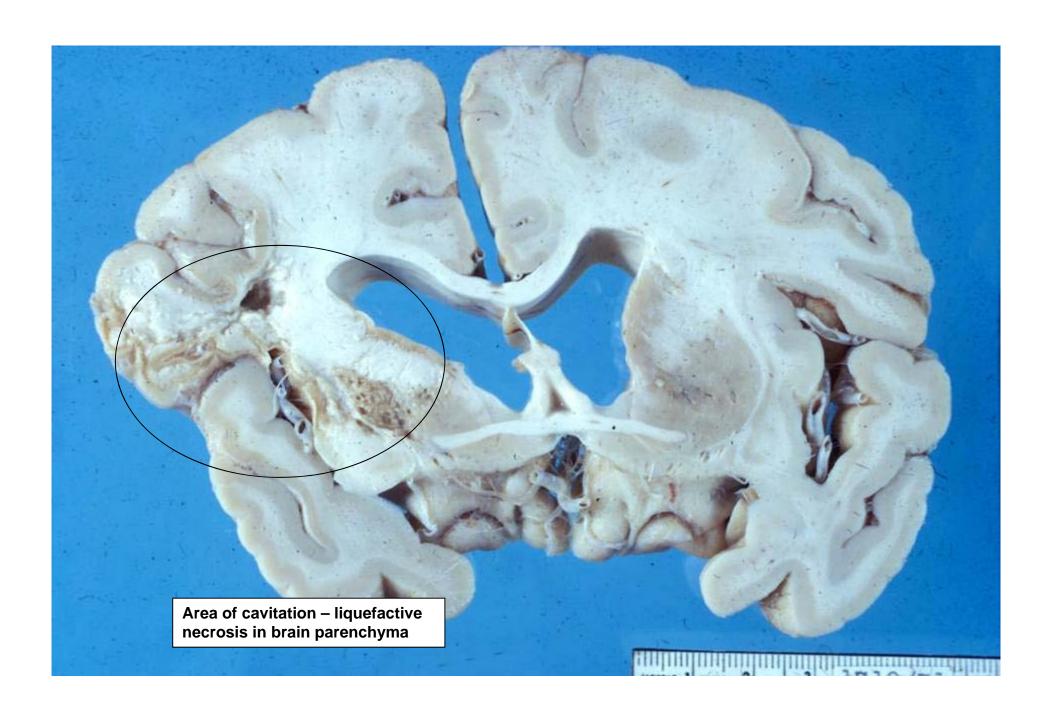
- Slide 11 : Liver: Fatty change
- Slide 3: Heart: Acute myocardial infarction (coagulative necrosis)
- Slide 6: Lung: Miliary Tuberculosis (caseous necrosis)

(refer to systemic pathology)

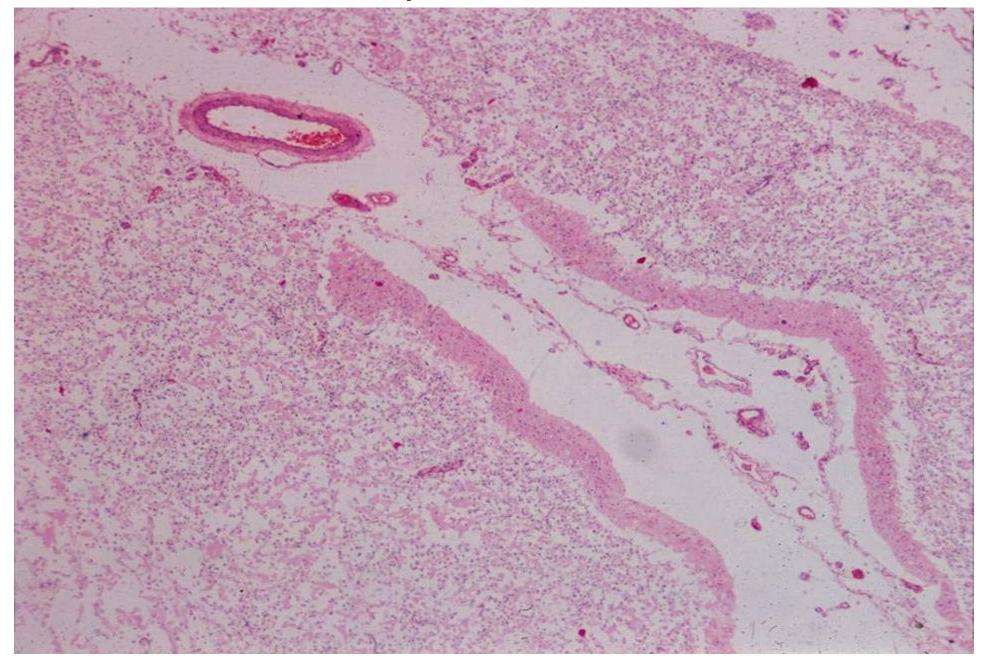
Demo: Brain Infarct (liquefactive necrosis)

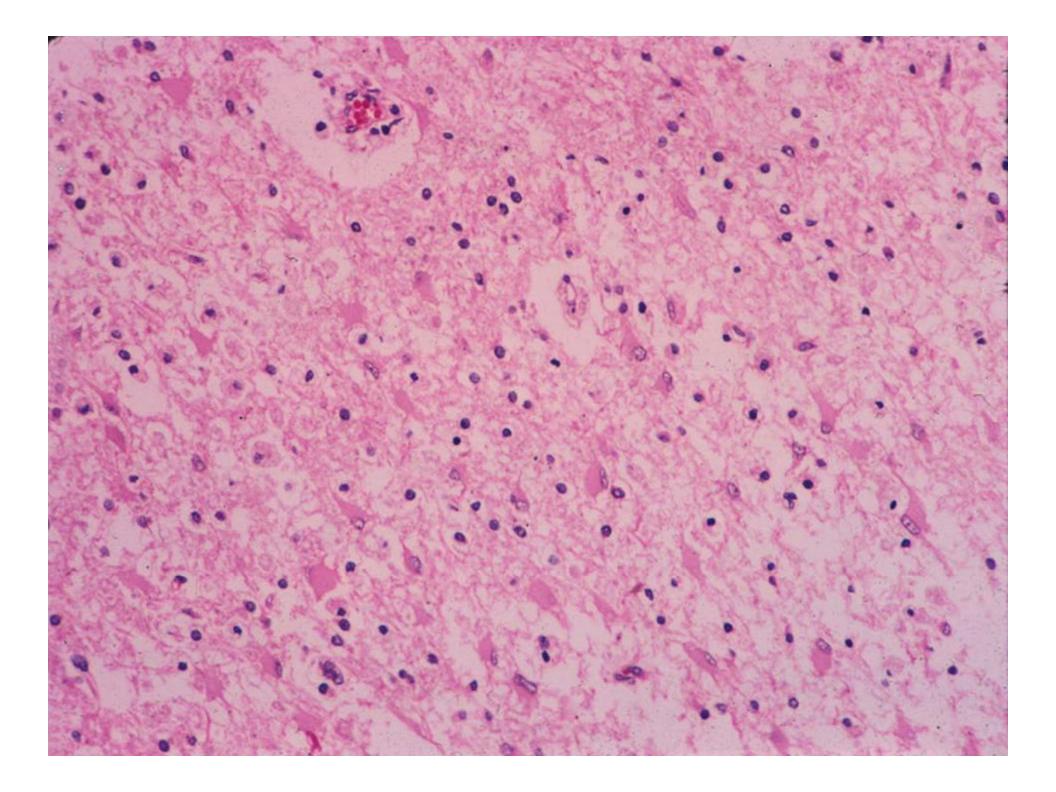
Demo slide:

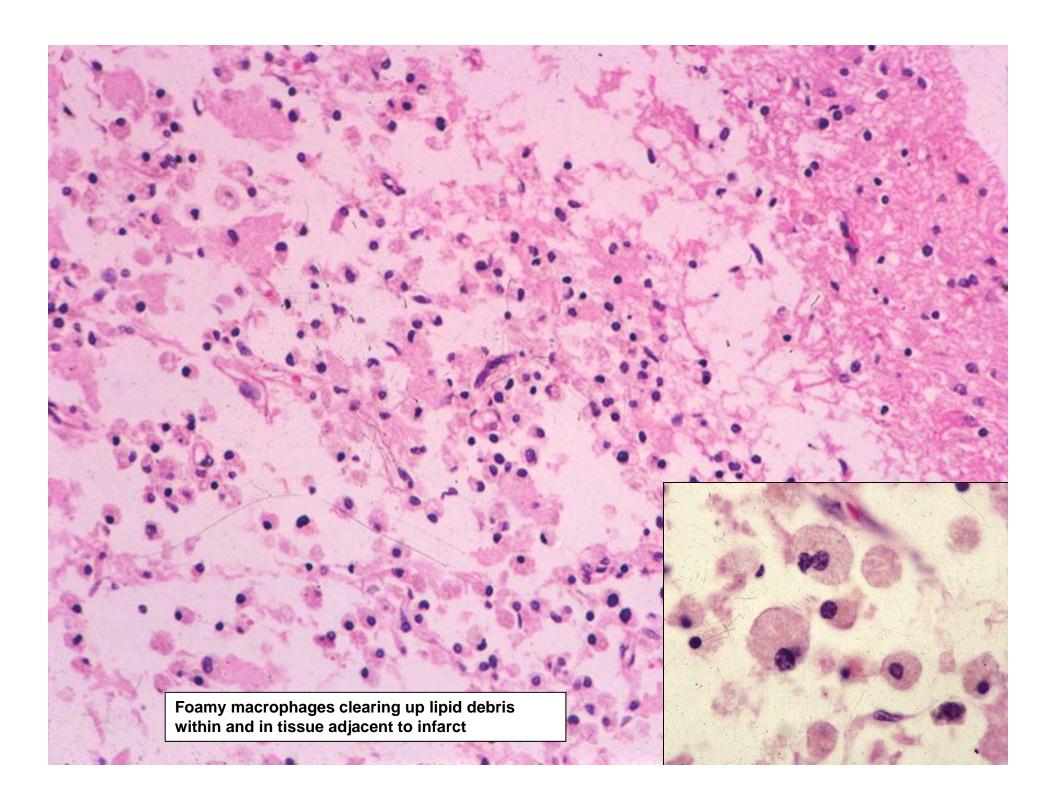
Brain: Infarct (Liquefactive necrosis)



Brain: Liquefactive necrosis







Haemodynamic Disorders

Haemodynamic Disorders

- Demo: Lung : Chronic venous congestion/oedema
- Slide 12: Liver : Chronic venous congestion
- Slide 2: Coronary artery : Fresh thrombus
- Slide 3: Coronary artery : Organised thrombus
- Slide 17: Kidney : Infarct

(refer to systemic pathology tutorials)

Acute Inflammation

Acute inflammation

- Slide 9 : Appendix: Acute inflammation
- Slide 5: Lung Bronchopneumonia
- Slide 7: Lung: Abscess

(refer to systemic pathology tutorials)

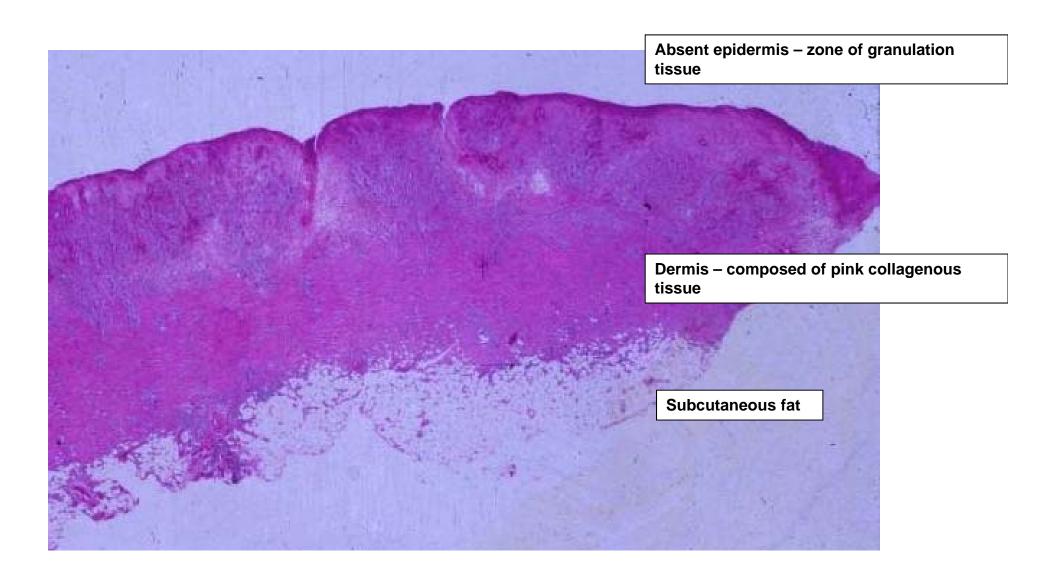
Chronic Inflammation, Healing and Repair

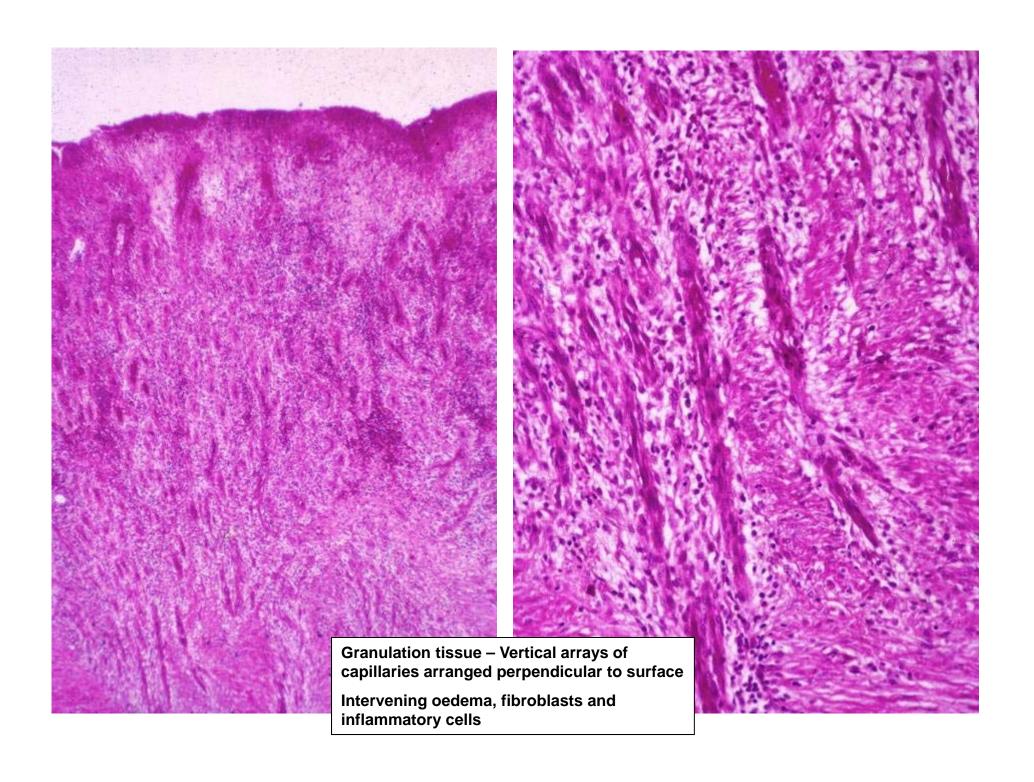
Chronic inflammation, healing and repair

- Slide 14: Lymph node: Tuberculosis
- Slide 4: Heart: Healed Infarct (refer to systemic pathology)
- Slide 24: Skin: Granulation tissue
- Demo Slide: Skin: Foreign body giant cell reaction

Slide 24:

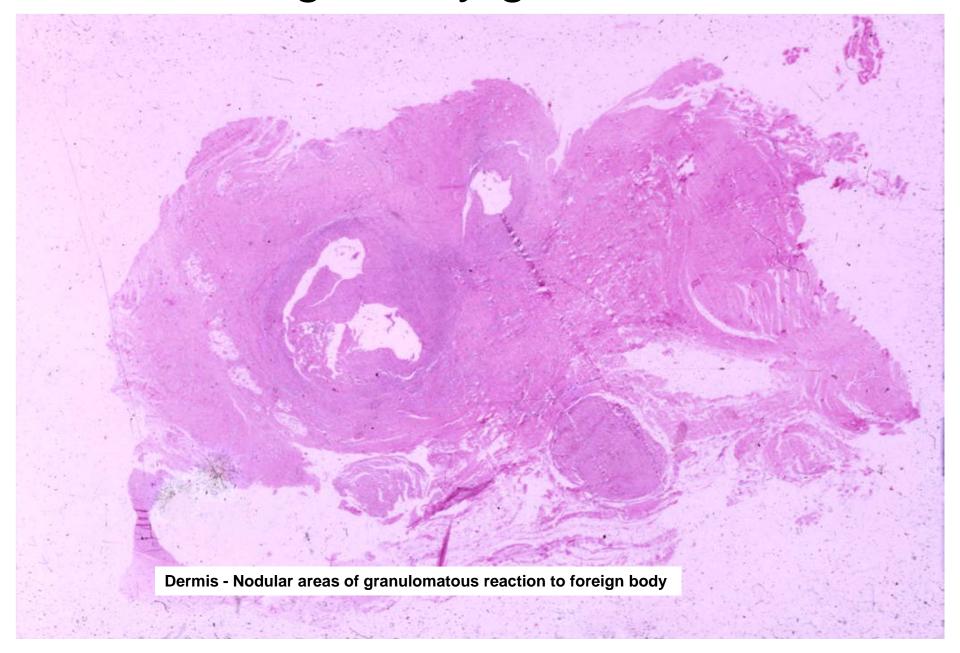
Skin: Granulation tissue

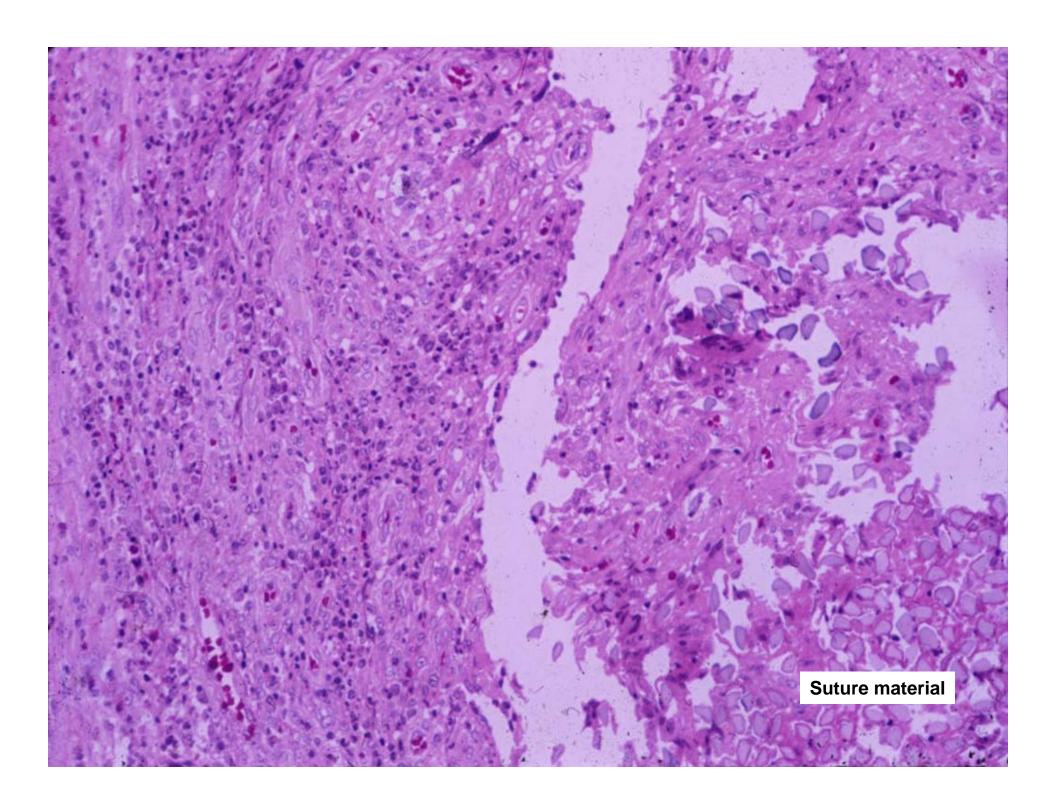


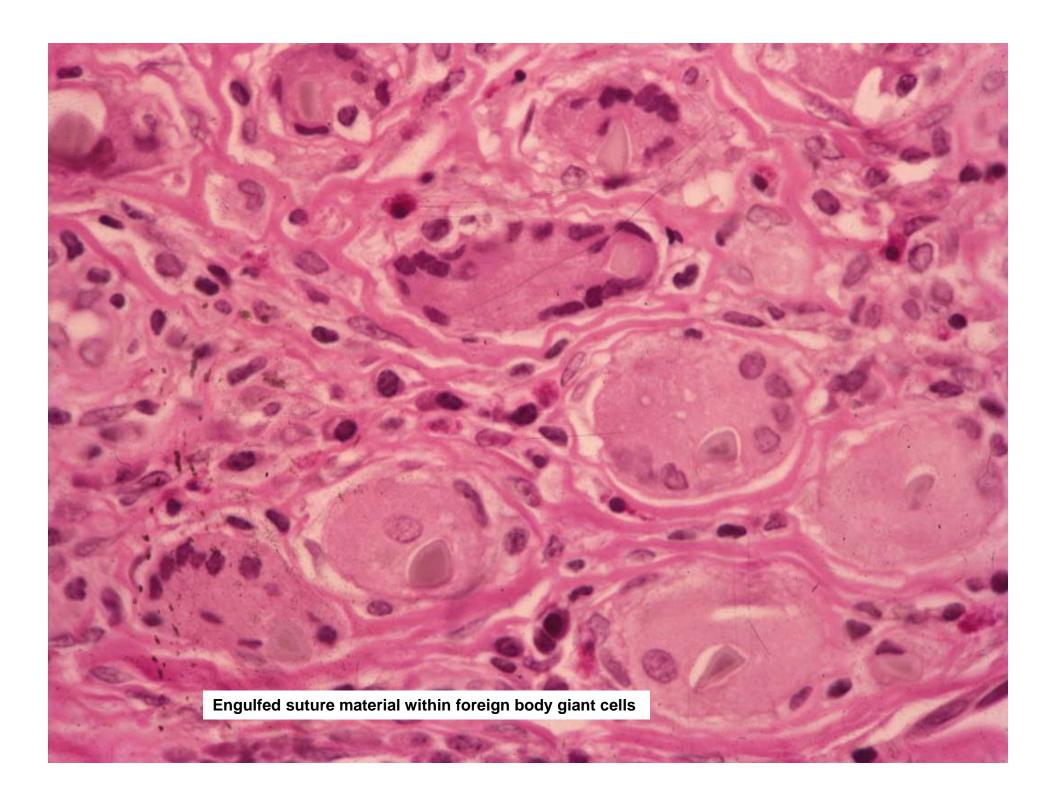


Demostration slide Skin: Foreign body giant cell reaction

Skin: Foreign body giant cell reaction







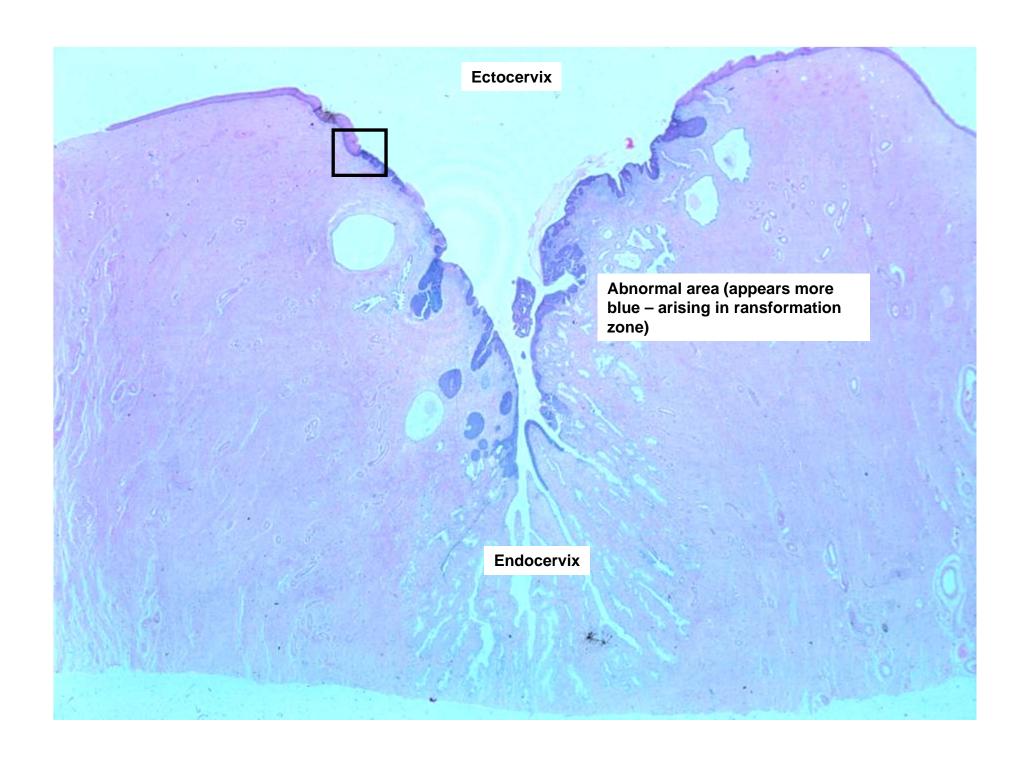
Cancer I

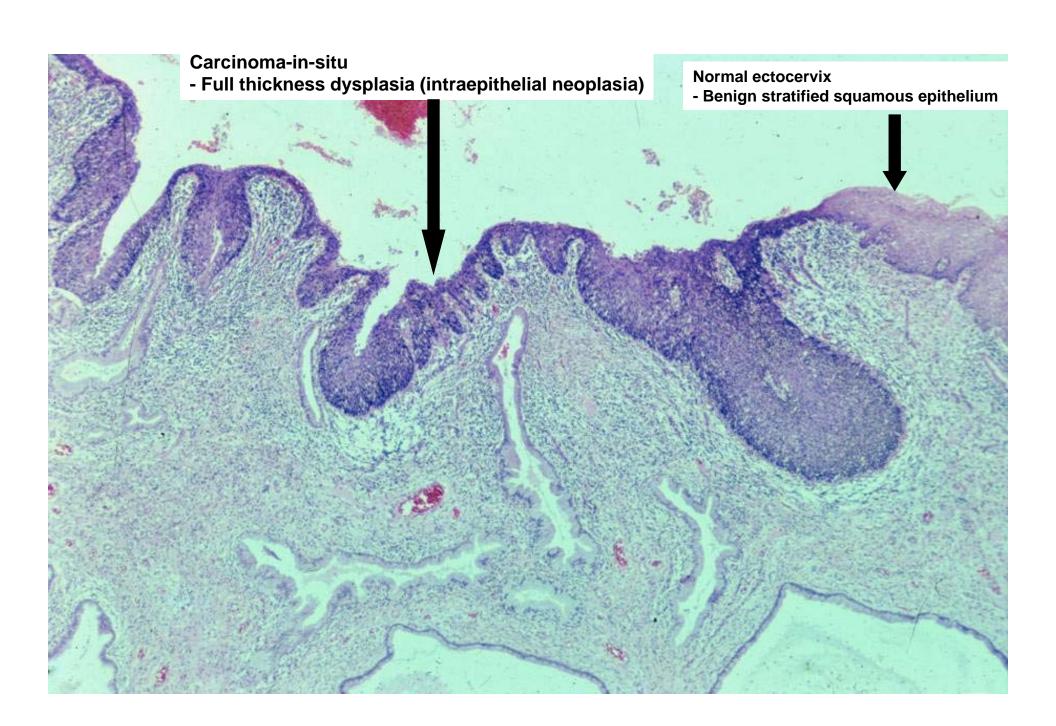
PATHOLOGY OF CANCER

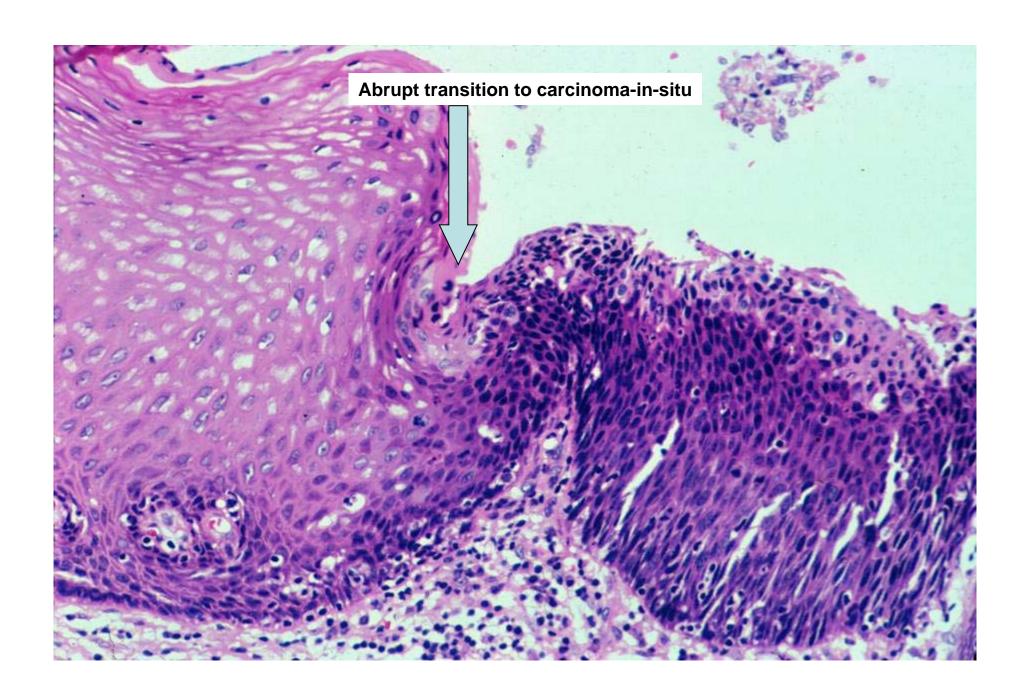
- Slide 20 : Cervix Carcinoma-in-Situ (CIN III)
- Slide 21 : Cervix Squamous cell carcinoma
- Slide 22 : Uterus Leiomyoma
- Demo slide : Ovary Mature cystic teratoma

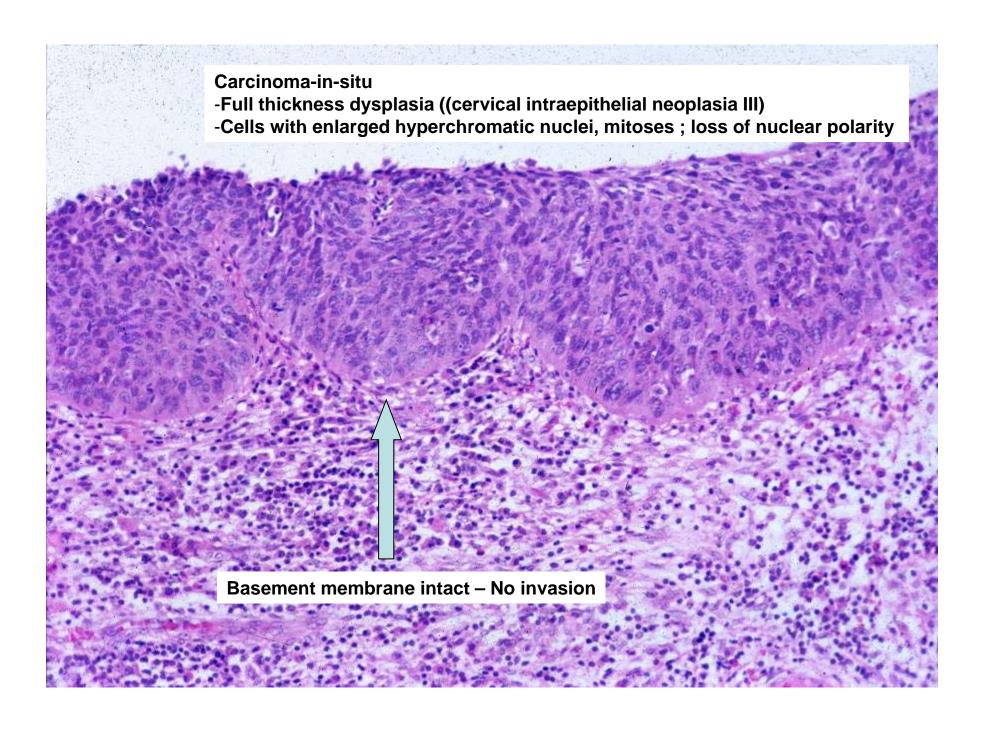
SLIDE 20 Cervix – Carcinoma-in-Situ (CIN III)

A 35-yr-old woman who had history of multiple sex partners in the past was found on routine gynaecological check-up to have an abnormal PAP smear. She was otherwise asymptomatic. Biopsy of the cervix was performed.





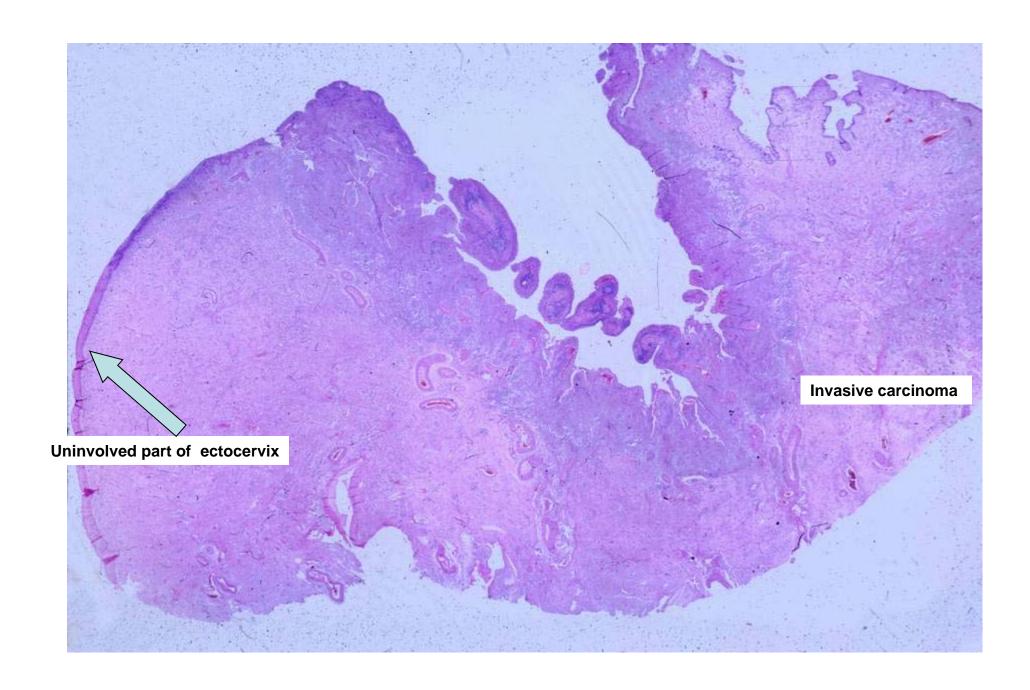


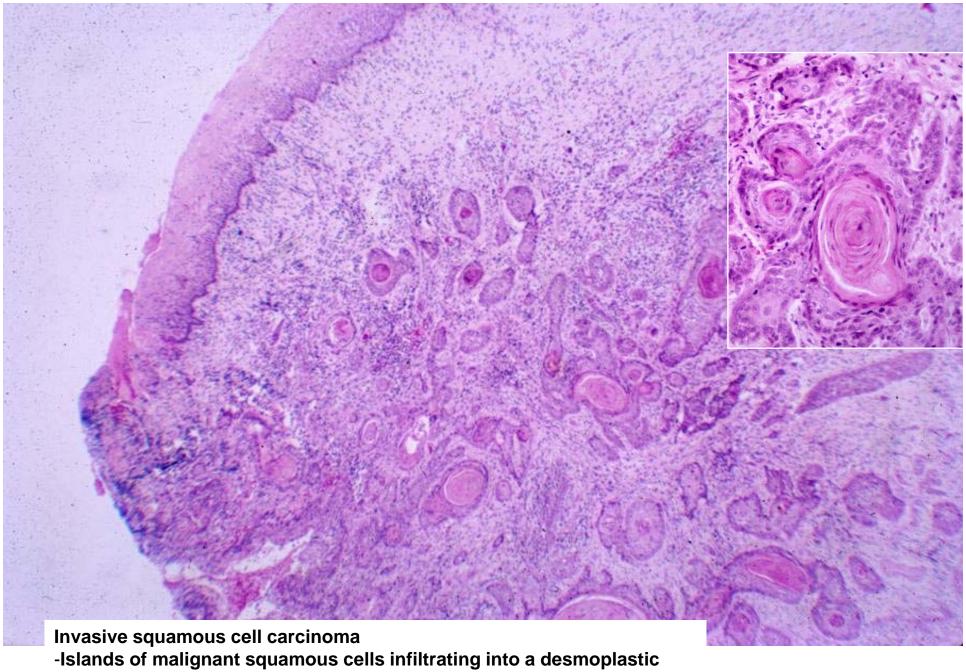


SLIDE 21 Cervix – Squamous cell carcinoma

A 50-yr-old woman noticed post-coital bleeding 6 months ago. She now has intermittent spotting and vaginal discharge. An ulcerated exophytic growth was seen in the cervix. A PAP smear was taken followed by definite surgery.



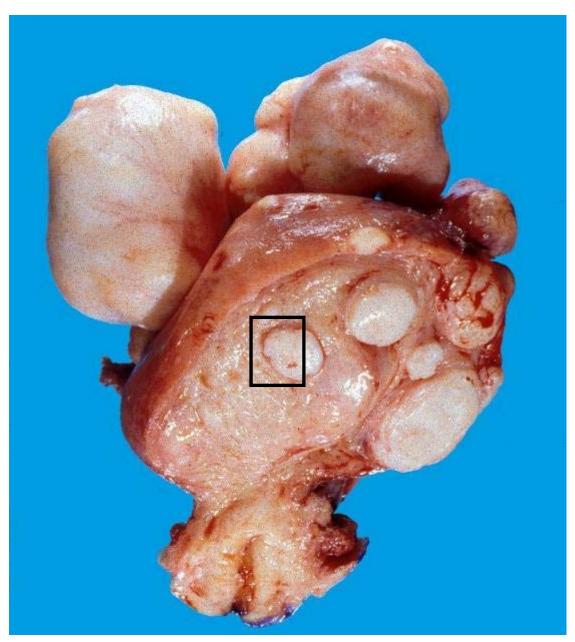




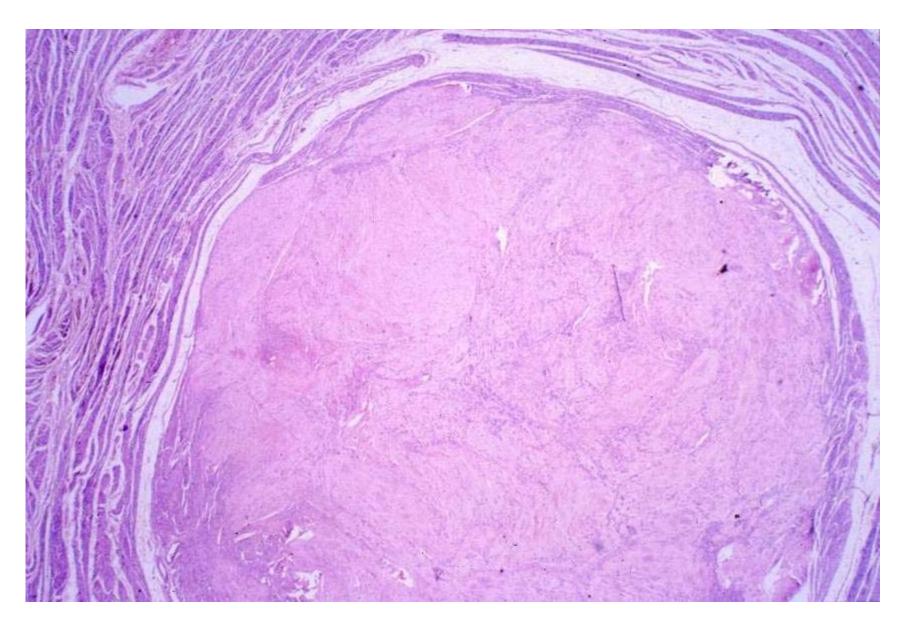
- stroma
- -Some keratin pearls seen (inset)

SLIDE 22 Uterus – Leiomyoma

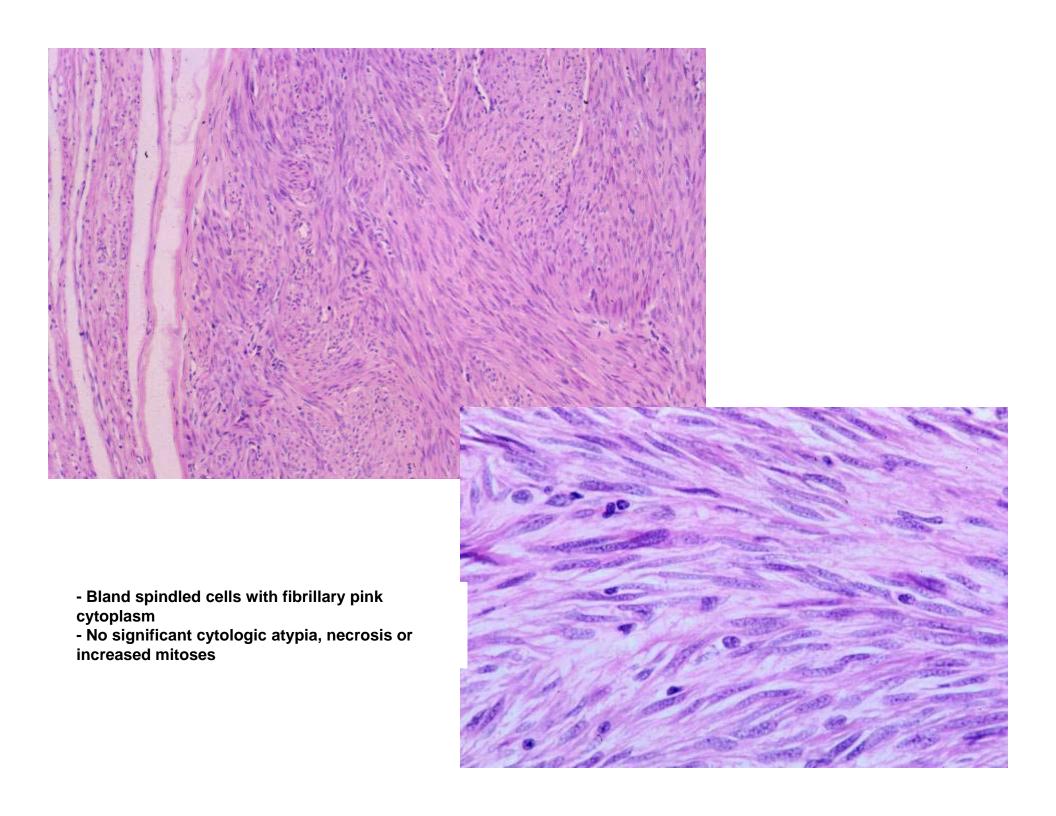
A 45 year old lady complains of heavy menses. Her full blood count shows her to be anaemic. After appropriate investigations, she undergoes a hysterectomy.



Uterus enlarged and distorted by multiple nodules : Well circumscribed, with pale, whorled cut surfaces

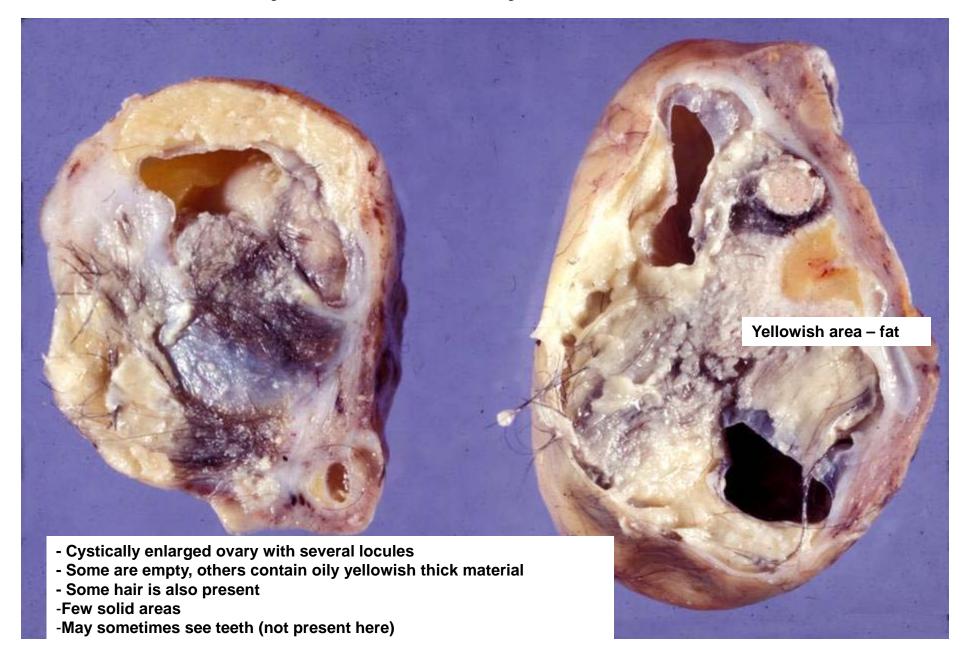


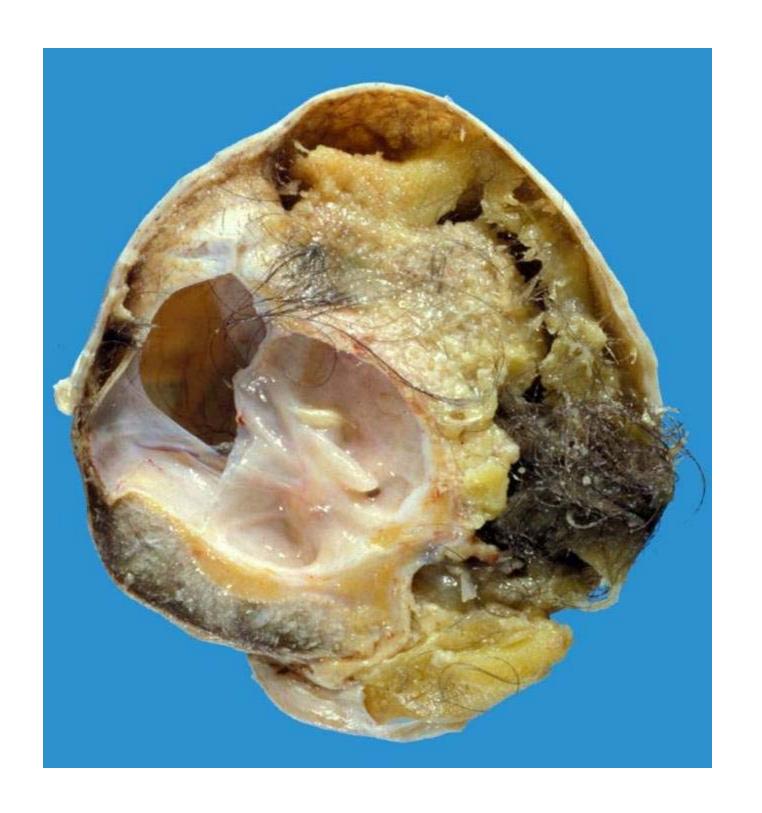
Well circumscribed nodule composed of fascicles (bundles) of spindled cells with eosinophilic (pink) cytoplasm

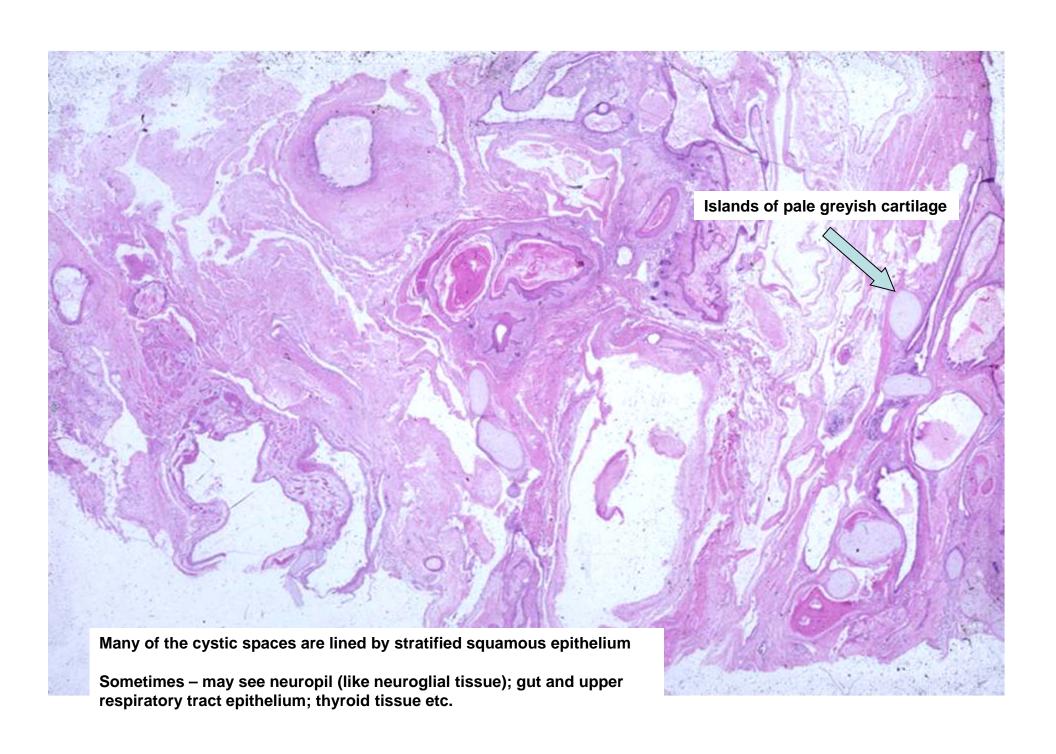


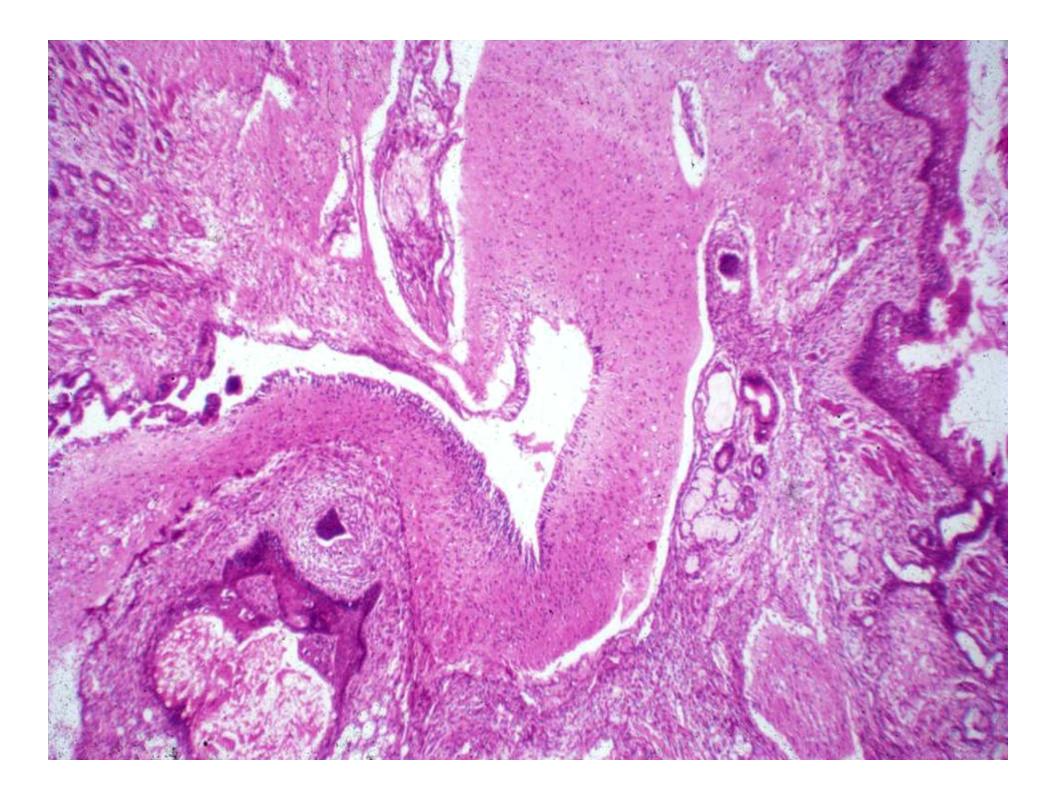
Demo slide : Ovary – Mature cystic teratoma

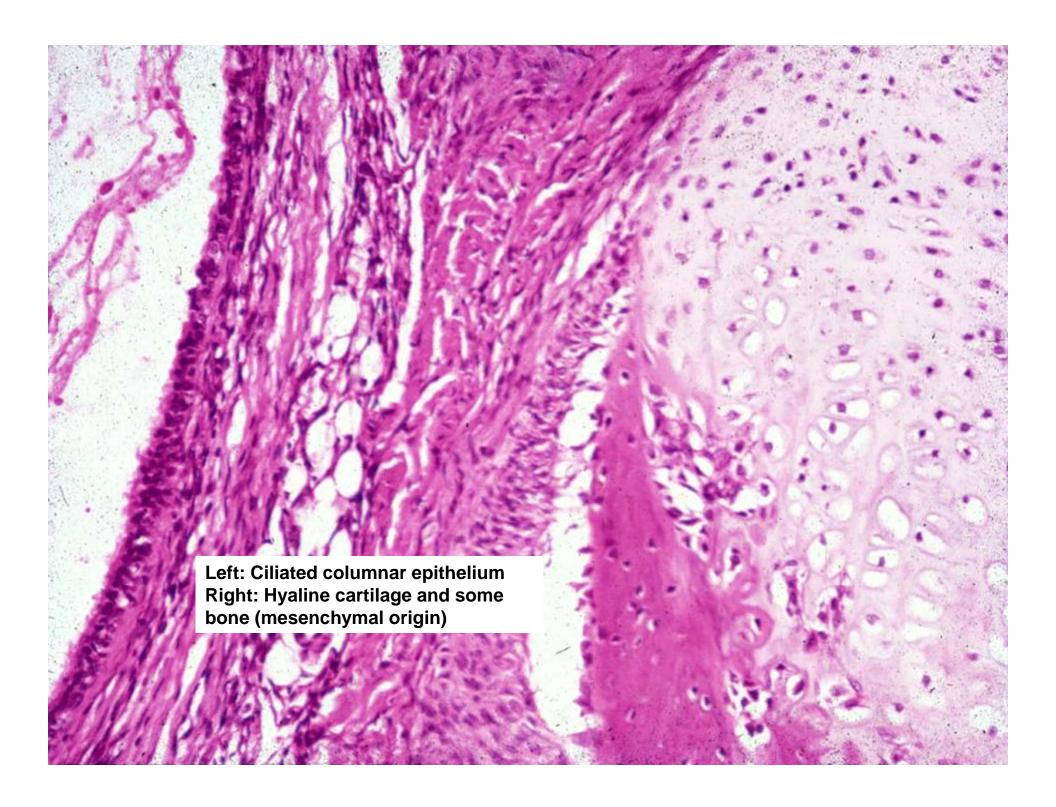
Ovary: Mature cystic teratoma

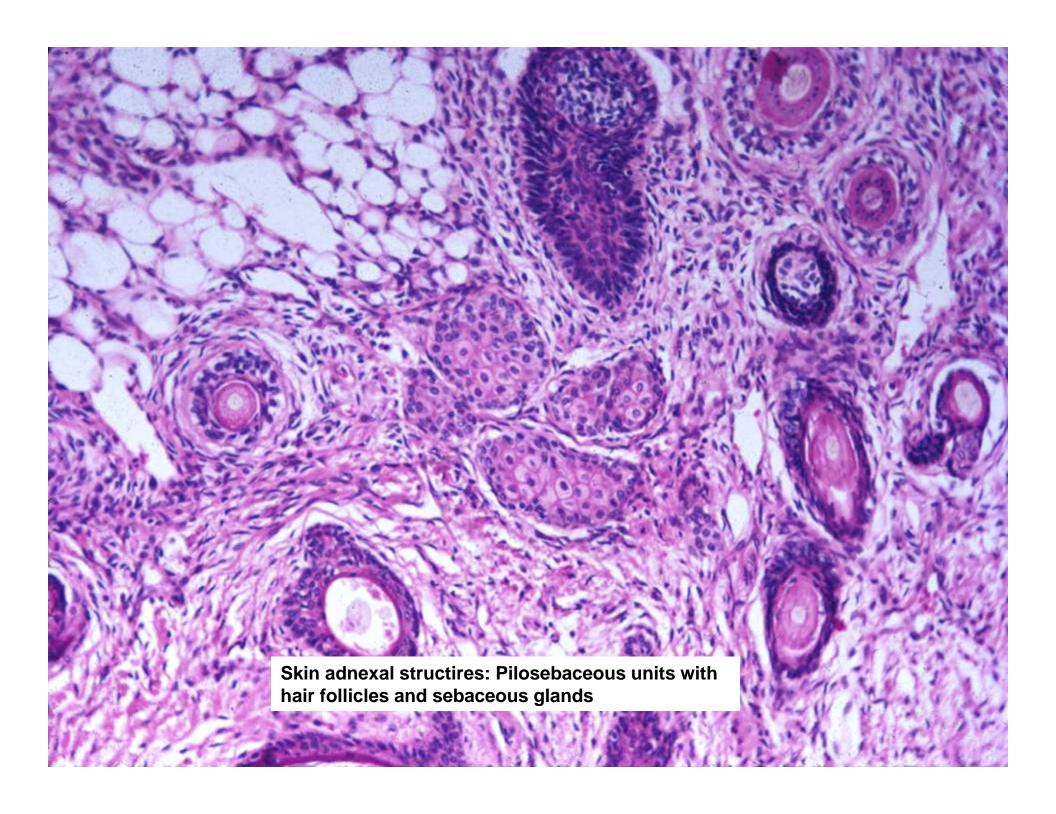












Cancer II

EFFECT OF CANCER ON HOST

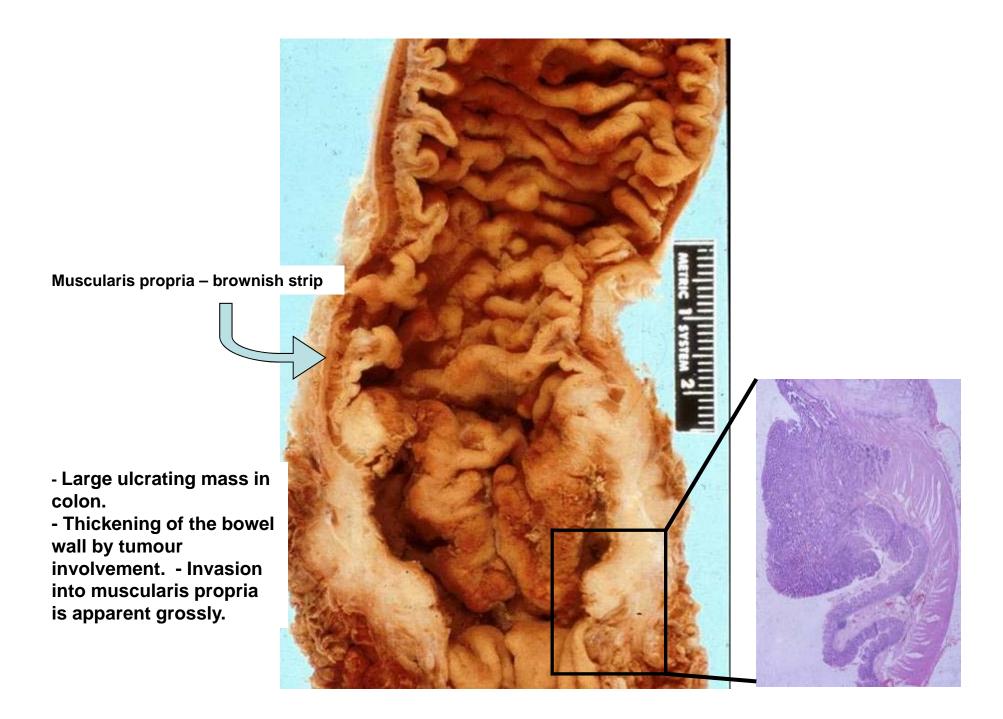
- Slide 15 : Lymph node Metastases (Squamous cell carcinoma)
- Demo slide : Liver Metastases (Secondary adenocarcinoma)
- Slide 19 : Breast Invasive ductal carcinoma

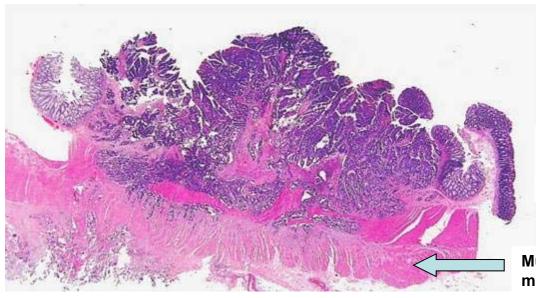
(refer to systemic pathology)

Slide 10 : Rectum – Adenocarcinoma

SLIDE 10 Rectum – Adenocarcinoma

A 62 year old man complains of bleeding per rectum, constipation and loss of weight. After appropriate investigations, an anterior resection of the rectosigmoid colon was performed.



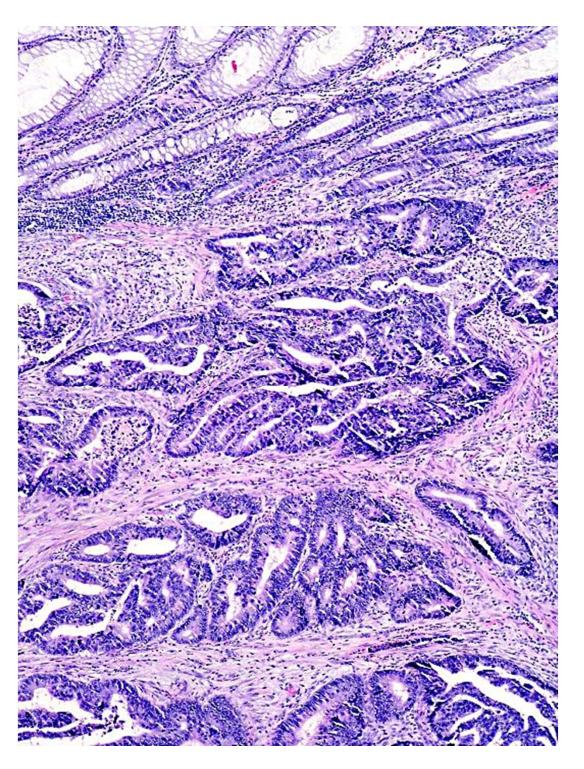


Tumour arising from mucosa, invading into underlying submucosa and muscularis propria

Muscualaris propria – pink appearing thick smooth muscle layer

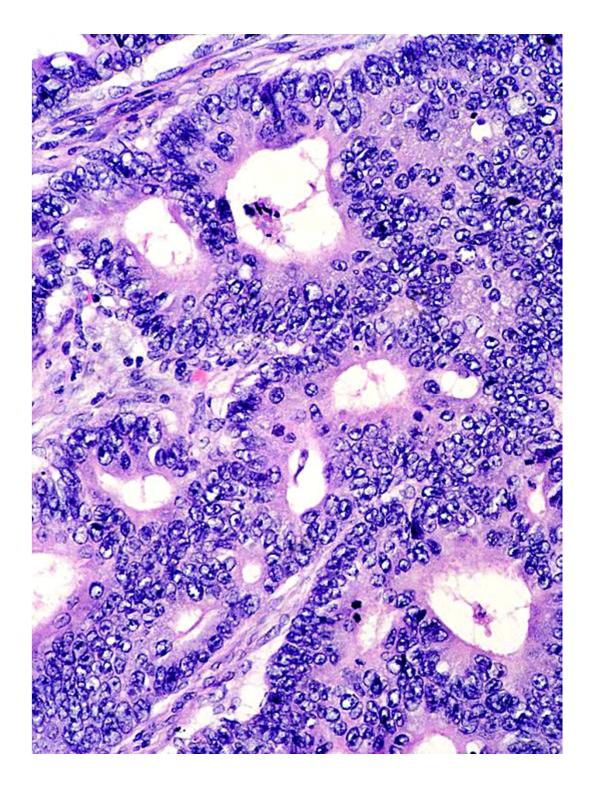
Normal mucosa

Adenocarcinoma – Irregular glands lined by malignant columnar cells, invading surrounding stroma



Benign colonic Imucosa

Adenocarcinoma – Irregular glands lined by malignant columnar cells, invading surrounding stroma



Adenocarcinoma – High power view – Columnar cells with large, hyperchromaic nuclei containing coarse chromatin. Some mitoses present.