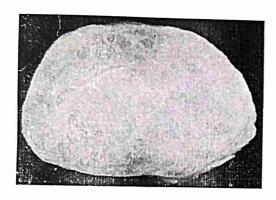
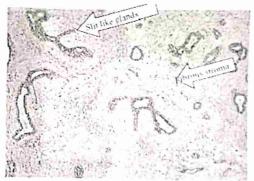
## Ahmed Mustapa F17-011. SGD-1 MBBS





Gross: Well demarcated, capsulated, nodular tumour Micro: Compressed slit like glands in cellular stroma.

Define Neoplasm: an abnormal tissue, the growth of which or exceed and incoordinated with that of a normal tissue & persists in the same excessively manner after the cersation of a stimuli which evoked the changes.

An 18yrs old female presents with solitary, discrete, movable mass in right breast which enlarges late in the menstrual cycle. On examination the lump is freely mobile and sharply circumscribed. FNAC is performed which shows slowly growing, well differentiated cells with rare mitosis and normal configuration.

1. What is the Diagnosis?

Key: Fibroadenoma

2. Is this mass benign or malignant?

Key: Benign

3. What are two components of tumor? -> Parenchyma. & Shoma

Key: 1.Parenchyma 2. Stroma

4. Define hamartoma and choriostoma?

a. Hamartoma: disorganized mass of tissue whose cell types are indiginous to the site of the lesion to the site of the leisions.

Fibroademona (bibrous lissue)

(ibroademona (bibrous lissue)

(ibroademona (bibroademon) of fibroblast

b. Choriostoma: ectopic focus of normal tissue (heterotopia)

5. What are the differences b/w benign and malignant tumors?

Feature	Benign	Malignant	
Rate of growth	Progressive but slow. Mitoses few and	Variable. Mitoses more frequent and may be	
Growing.	Slow Growing	abnormal fast Growing.	
Differentiation	Well differentiated —	Some degree of anaplasia/ Pooly differ	entiated
Local invasion	Cohesive growth.  Capsule & BM not breached	Poorly cohesive and infiltrative.	
Capsulated	Capsulated	Non-Capsulated.	
Metastasis	Absent	May occur	i.

asperin +nitroglycein

6. What is the difference between carcinoma and sarcoma?

### <u>Carcinoma:</u>

Malignant tumor of epithelial origin e.g.squamous cell carcinoma,adenocarcinoma,TCC,RCC

#### Sarcoma:

Malignant tumor of mesenchymal origin

e.g. fibrosarcoma, osteosarcoma, liposarcoma

jbrosarcoma Osleosarcoma 1:posarcoma

# SGD-2



A 60 year old female presents with a firm lump in the right breast. On mammographic examination, areas of calcification are seen. Biopsy of the lump shows pleomorphic cells with hyper chromatic nuclei without invasion of the basement membrane

 What is the most likely diagnosis?
 Key: Invasive carcinoma of breast (Invasive Ductal carcinoma of breast)

2. Is this swelling benign or malignant?

Key: Malignant

3. What are the four characteristics of tumors?

Key: .Differentiation, Rate of growth, local invasion, metastasis

Local invasion

4. Name the benign and malignant germ cell tumors.

Benign: Teratoma Malignant: Teratocarcinoma

5.Name the benign and malignant tumors of mesenchymal origin, Probb (2019)

Benign

Malignant (

A. Connective Bo

Bone

Osteoma

Osteosarcoma

Tissue

Cartilage

Chondroma

Chondrosarcoma

**Fibroma Fibroblast** 

Fibrosarcoma

**Erythroid** В. Hematopoietic

Erythroid leukemia

Myeloid

Lymphoid

Myelogenous leukemia

Lymphocytic leukemia

malignant lymphoma

C. Muscle

Smooth

Leiomyoma

Leiomyosarcoma

muscle

Striated

(skeletal)

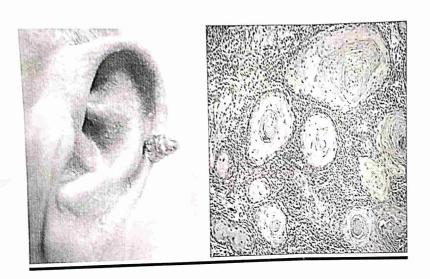
muscle

Rhabdomyoma Rhabdomyosarcoma

D. Vascular

Hemangioma) Angiosarcoma

# SGD-3



A 72-year-old man presents with a slowly growing, ulcerated lesion located on the pinna of his right ear. The lesion is excised, and histological sections reveal infiltrating groups of cells, with increased mitosis, hyper chromatic, poorly differentiated cells in the dermis. These cells have eosinophilic cytoplasm, intercellular bridges, and intracellular keratin formation.

1. What is the most likely diagnosis? Key: Well differentiated Squamous cell carcinoma

2. What is the importance differentiation?

Key:

Importance of differentiation

1. Site of origin in metastatic disease example: squamous carcinoma in a lymph node, sites of origin would include lungs, respiratory tract, gyn tract, skin

2.Prognosis

well differentiated often better prognosis than poorly differentiated Mode of treatment.

3 Mode of Treatment

treatment varies, example adenocarcinoma vs squamous

3. Compare anaplasia, dysplasia, carcinoma in situ and desmoplasia.

"adrenal Gland"

• Anaplasia / lack of differentiation of tumors

Dysplasia (Atypical proliferation of cells characterized by nuclear enlargement and failure of differentiation which falls short of malignancy)

Dysplasia may regress, persist or progress

• Carcinoma in situ: Full-thickness dysplasia extending from the basement membrane to the surface of the epithelium.

Desmoplasia: The change that occurs in the stroma as tumor invades is called desmoplasia. Desmoplasia refers to the stroma composed of connective tissue and blood vessels that surrounds the infiltrating tumor.

4. Give four examples of benign and malignant tumors of epithelial origin?

Key: Any 4 examples of the following table;

#### ORIGIN **MALIGNANT** BENIGN <u>I. EPITHELIAL</u> Stratified Squamous cell Squamous cell squamous papilloma carcinoma Basal cells of Basal cell skin carcinoma **Epithelial** Adenoma (e.g. Adenocarcinoma lining from of colon) (e.g. of colon) glands or ducts Hepatocytes Hepatocellular Hepatocellular adenoma carcinoma (also reforocollinar. called "hepatoma", a

confusing Term