

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

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 Sibil adenoma configuration.

1. What is the Diagnosis?

2. Is this mass benign or malignant?

3. What are the differences b/w benign and malignant cells?

4. What are the four characteristics of a neoplasm? summontrolled excersive new growth. o persist even after comation of Stimulus which everses the change. 1) Parendyma (neoplastic (ell population) 2) stroma (connective tissue & vessels 2 2 components.

## 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.

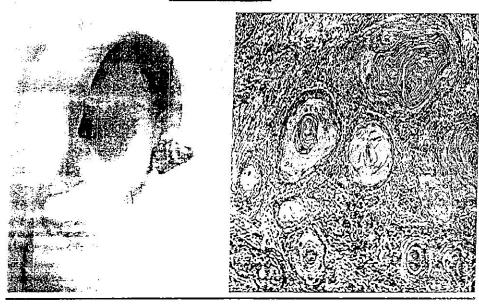
1. What is the most likely diagnosis? ductol 2. Is this swelling benign or malignant? (Malignant)

3. What are the differences b/w Benign and malignant tumor?

4. What is the difference b/w hyperplastic and dysplastic cell?

5. What are the characteristics of dysplastic cell?

## 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? 2. Is this carcinoma invasive or not? Locally Invasive.

3. What is the difference b/w dysplasia and anaplasia?

Osyphasia Proliferation on oned growth of cell with of differentiation or seen every where. a Principally seen in Epithelhum.

Anaplasia

Cell-Free DNAMarkers. TPS 3, APC, RAS mutants in Stool 45 erum colon cancer TP53 RAS mutants in Stool se serum Pancreatic Cancer. TP 53, RAS mutants in sputrum & serum lungs cancer. TP53, in wrine Bladder cancer

SGD-1

A 50 yrs old male with h/o frequent dental treatments from a road side quack developed hepatitis C infection 20 yrs ago. He is brought to a hepatologist with weakness, fever and pain in the right hypochondrium.

On USG the liver reveals a mass. The hepatologist orders a Single tumor marker to come to a diagnosis.

These are the substances such as proteins, biochemiceOs, or energines produced by tumor cells or by body in response to tumor. serum d. fetoprotein

a) Name the tumor marker he is most likely asked for?

Enlist three tumor markers with their associated jumors.

an Toy turn tenses Hormones Traphoblastic fumor. Non-Senure -motors testicular turnor. calcitonin. Medullary Carrinoma of theyroid Catecholomineso Metabolites Pheochromocytoma & related

on whetal antigens a-fetoprotein

liverell concer. Hepatitis.

Carcinoembryonic Antigen

Carcinomas of colon Pancress, lungs Stomach, heart.

Isolntymes.

Prostates & Phosphatuso.

Neuron-Specific enologe.

Specific Proteins.

I mounoglobuling.

Prostate - specific Antigen Prostate - Specific membrane

Prostate cancer.

Small cell concer of lung. Neuroblastoma,

Multiple myeloma

Prostate concer,

## SGD-2

A 24 yrs old woman with a history of heavy and painful menstrual periods has been having difficulty conceiving despite months of trying to become pregnant. Her workup included a bimanual pelvic examination and an USG, which demonstrated a mass in the uterus that was presumed to be leiomyoma. (connectiver skeletal tissues + Block folymph).

(connectiver skeletal tissues + Block folymph).

Bones, cartilage, Muscles, fat.

a) Enlist any four benign mesenchymal tumors, other than leivomyoma. Fibrima, Lipoma, Chondrona, Osteoma.

b) What is meant by GRADE of tumor explain with examples?

c) What is meant by stage of tumors? Explain with examples.

d) What are different staging systems? Explain them. ATC(TNM).