

**Kafrelsheikh University**

**Faculty of Veterinary of Medicine**

**Pathology Department**



**Under supervision of**

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**Title of student research projects of 3<sup>rd</sup> degree student, General pathology, 2<sup>nd</sup> term.**

**1\_ Disturbances of growth and differentiation**

- Congenital abnormalities.
- Classification of anomalies.
- Monsters.
- Acquired abnormalities.
- Dysplasia.

**2 - Etiology and mechanism of tumor**

- Chemical carcinogen.
- Viral carcinogen.
- Physical carcinogen.
- Initiation.
- Promotion.
- Progression.

**3- Spread of malignant tumor**

- Invasion spread.
- Embolic spread by lymph vessels.
- Blood born metastasis.
- Transplantation.
- Growth of benign tumor.

**4- Tumors of covering epithelium**

- Squamous cell papilloma.

- Squamous cell carcinoma.
- Basal cell carcinoma.
- Cylindroma.
- Trichoepithelioma.

### **5- Lymphoma**

- Origin and occurrence.
- Hodjkin's lymphoma.
- Reedstrenberg cells.
- Types of hodjkin's lymphoma.
- Types of non hodjkin's lymphoma.

### **6- Tumors originated from nonepithelial tissues**

- Fibroma and fibrosarcoma.
- Lipoma and liposarcoma.
- Myxoma and myxosarcoma.
- Chondroma and chondro sarcoma.
- Osteoma and osteosarcoma.

### **7- Chemical mediators of inflammation**

- Plasma derived mediators.
- Cell derived mediators.
- Preformed synthesis cell derived.
- Newly synthesized cell.

### **8- Vascular and exudative changes in acute inflammation.**

- Changes in blood vessels caliber and blood flow
- Changes in vascular permeability.
- Cellular events and phagocytosis.

### **9- Inflammatory cells.**

- Origin
- Structure
- Functions.

### **10\_ Classification of inflammation**

- according to tissue reaction.
- according to exudate.
- according to sequellae.
- according to duration.