

GENERAL PATHOLOGY FOR DENTAL STUDENTS

COURSE - PATH 210

KING SAUD UNIVERSITY
College of Medicine
Department of Pathology

GENERAL PATHOLOGY
3 CRH (2 + 1)
Dental Students
Academic Year 1428-1429

TOPICS AND LECTURE TITLES

Lecture 1 : *Introduction to the study of pathology:*

- * Definition and scope of pathology.
- * Subdivisions of pathology.
- * Techniques of pathology.
- * Characteristics that apply to the study of disease.
- * Diagnostic pathology: biopsies-cytology- role of autopsies.

Inflammation, repair and regenerations (6 lectures).

- Lecture One** : Definition and aetiology of inflammation.
Manifestations of inflammation.
- Lecture Two** : Cells involved in inflammation: neutrophils,
basophils, eosinophils, macrophages and
lymphocytes.
- Lecture Three** : Inflammatory response and chemical
mediators of inflammation.
- Lecture Four** : Types of inflammation (acute and chronic).
- Lecture Five** : Osteomyelitis: aetiology - pathological features -
clinical features and laboratory investigations.
- Lecture Six** : Wound healing and repair.

Fracture healing.

Cell injury.

- Lectures 1 and 2** : Reversible cell injury.
- Intracellular storage disorders: fat, glycogen, iron lipofuscin, melanin and exogenous pigments (anthracosis).
- Irreversible cell injury: morphology and types of necrosis - apoptosis.
- Cell injury caused by oxygen radicals.
- Calcification: dystrophic and metastatic.

Environmental and nutritional pathology (3 lectures).

- Lectures 1, 2 and 3** : Smoking and its adverse effects.
- Radiation injury.
- Nutritional disorders: obesity, marasmus, Kwashiorkor, vitamin deficiencies: vit. A, riboflavin, and vitamin C (ascorbic acid).

NOTE: Introduction, cell injury, environmental and inflammation should be given during first semester.

Haemodynamic and circulatory disorders (3 lectures).

- Lecture I** : Haemorrhage, thrombosis and embolism.
- Lecture II** : Ischaemia, infarction and oedema.
- Lecture III** : Shock: pathogenesis and pathological features.

Granulomatous diseases (2 lectures).

- Lecture I** : Definition of granuloma.
- Formation of granulomas and causes of granulomatous inflammation.
- Tuberculosis (primary, post-primary and systemic).
- Lecture II** : Actinomycosis.

Disorders of growth (2 lectures).

Lectures 1 and 2 : Definitions, pathological and clinical features of: atrophy, hypertrophy, hyperplasia, metaplasia, dysplasia and carcinoma in situ.

Neoplasia (5 lectures).

Lecture 1 : Definition, classification and characteristics of benign and malignant tumours.

Lectures 2 and 3 : Histological diagnosis of malignancy: anaplasia, cellular atypia, mitotic activity- invasion and metastasis.

Epithelial and non-epithelial tumours - teratomas and hamartomas.

Lecture 4 : Chemical and viral carcinogenesis.

Lecture 5 : Human tumour oncogenes.

Tumour suppressor genes (retinoblastoma (Rb) gene and P53 gene).

HIISTOPATHOLOGY PRACTICALS AND SLIDE NUMBER

Inflammation, repair and regeneration.

1. Fibrinous pericarditis.
2. Acute suppurative appendicitis.
3. Foreign body reaction (pilonidal sinus).
4. Granulation tissue.

Cell injury.

5. Fatty change of the liver.
6. Dystrophic calcification.

Haemodynamic and circulatory disorders.

7. Organizing thrombus.
8. Recent myocardial infarction.

Granulomas.

9. Tuberculous lymphadenitis.
10. Miliary tuberculosis of the lung

Hyperplasia.

11. Cystic hyperplasia of the endometrium.
12. Cystic hyperplasia of the breast.

Benign tumors.

13. Intradermal naevus.
14. Leiomyoma.
15. Chondroma.
16. Hemangioma.
17. Fibroadenoma of the breast.

Malignant tumors.

18. Basal cell carcinoma of the skin.
19. Squamous cell carcinoma of the skin.
20. Adenocarcinoma of the large intestine.
21. Mucoid carcinoma of the large intestine.
22. Fibrosarcoma.

NOTE: Other slides of similar conditions may be used for examination.

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