



Pathophysiology-1
Title: Pathophysiology-I
Subject code: 341 PHCL
Semester: Sixth Semester (Third Year).
Duration: 2 + 1 Units (4 contact hours) per week.
Aims: To provide general knowledge on mechanisms, etiologies, risk factors and complications of disease processes.
Objectives: At the end of the course the student should know the mechanisms, etiologies and complications of diseases.
Contents: Lectures: Basic principles of cell injury and Adaptation. <ul style="list-style-type: none">a) Causes, Pathogenesis and morphology of cell injury.b) Abnormalities in lipoproteinaemia, glycogen infiltration and glycogen infiltration and glycogen infiltration and glycogen storage diseases. Inflammation: <ul style="list-style-type: none">(a) Pathogenesis of acute inflammation, Chemical mediators in inflammation, Types of chronic inflammation.(b) Repairs of wounds in the skin, factors influencing healing of wounds. Cancer: differences between benign and malignant tumors, Metabolic Disorders: Diabetes Mellitus Cardio-vascular System: Hypertension, Stroke (ischaemic and hemorrhage) Angina, CCF, Atherosclerosis, Myocardial infarction. Respiratory System: Asthma and chronic obstructive airway diseases.



Sexually transmitted diseases (STD) : HIV, Syphilis, Gonorrhea.

Infectious diseases: Urinary tract infections, Pneumonia, Typhoid, Tuberculosis, Leprosy, Malaria Dysentery (bacterial and amoebic), Hepatitis- infective hepatitis.

Practical: Demonstration of slides and diseased specimens; laboratory findings of major diseases are discussed.

Minimum course requirements: 30 (2 x 15) Unit lectures and 30 practical hours (2 x 15) per level.

Evaluation methods:

-Quizzes	10%
- Mid term examination	25%
- Practical examinations	25%
- Final examination (written)	40%

Text Books (latest editions):

- 1- Pharmacotherapy A Pathophysiologic Approach, Joseph T. Dipiro, Robert L. Talbert, and Michael Posey, Appleton and Lange: Norwalk, Connecticut.
- 2- Essentials of Pathophysiology for Pharmacy, Zdanowikz.

Recommended books (latest editions):

- 1- Pathophysiology, Carl Mattson.
- 2- Pathophysiology: Altered Regulatory Mechanisms in Disease, Edward D. Forhlich, Lippincott Company, Philadelphia.
- 3- Harrison's Principles of Internal Medicine, Companion Handbook, Anthony Fauci et al.

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- 4- Pathophysiology of Dermatologic Diseases, Nicholas A. Soter and
Howard P. Baden.
- 5- Pulmonary Pathophysiology: the Essentials, John B. West.