



Module Description

University of ALKafeel / College of Pharmacy. Academic Year (2020-2021)

Stage:	Third
Specialization:	Pharmacy
Name of the Course in Arabic	فسلجة امراض
Name of the Course in English	Pathophysiology
Goals:	Describe the basic concepts of pathophysiology at the cellular level related to injury, the self-defense mechanism, mutation, and cellular proliferation.
Description	Outline basic pathological factors that influence the disease process. Describe the impact and abnormal functions upon the organ (s) associated with the disease process of targeted body systems. Describe clinical manifestations associated with the diseased organ(s).
Number of Theoretical lectures	3
Number of Practical lectures	2
Credits	4
Name of Instructor in Arabic	أ.د. مصطفى غازي سلوم العباسي (النظري) م.م. ايمن محمد باقر عبد الحسين (العملي)
Name of Instructor in English	Professor Dr. Mustafa Ghazi Salloom Alabbassi Aimen mohammed Baqer
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Curriculum / Theoretical:

Week	Syllabus
1	Introduction.
2	Cell injury and tissue response; Degeneration; Necrosis; Atrophy; Hypertrophy; Metaplasia and Calcification; Inflammation and Repair.
3	Cell injury and tissue response; Degeneration; Necrosis; Atrophy; Hypertrophy; Metaplasia and Calcification; Inflammation and Repair.
4	Disorders of electrolytes and water and acid–base balances: Hyper and Hyponatremia; Hyper and Hypokalemia; Syndrome of inappropriate secretion of ADH; Diabetes insipidus; Metabolic acidosis and alkalosis; Respiratory acidosis and alkalosis.
5	Disorders of cardiovascular system: Hyperemia; Congestion and edema; Thrombosis; embolism and infarction; Shock; Coronary heart disease and MI; Rheumatic heart disease; Heart failure; Acute pulmonary edema; Essential hypertension; Secondary hypertension; Malignant hypertension; Hypotension; Aneurysm versus varicose veins;
6	Disorders of respiratory system: Pneumonias; Tuberculosis; Respiratory distress syndrome; Bronchial asthma; Emphysema and bronchiectasis; Cystic fibrosis; Pulmonary embolism; Pulmonary hypertension.
7	Disorders of the renal system: Nephrotic syndrome; Glomerulonephritis; Diabetic glomerulosclerosis; Hypertensive glomerular disease; Pyelonephritis; Drug related nephropathies; Acute renal failure; Chronic renal failure.
8	Disorders of GI and hepatobiliary systems: Peptic ulcer and Zollinger – Ellison syndrome; Irritable bowel syndrome; Crohn's disease; Diarrhea; Celiac disease; Viral hepatitis; Primary biliary cirrhosis; Liver failure; Cholelithiasis.
9	Disorders of thyroid function: Hypothyroidism. Hyperthyroidism. Graves's disease. Thyrotoxicosis.
10	Disorders of adrenal function: Cushing syndrome. Adrenal cortical insufficiency (primary and secondary). Congenital adrenal hyperplasia. Pheochromocytoma.
11	Diabetes mellitus and metabolic syndrome; Dyslipoproteinemia.
12	Neoplasia.
13	Metabolic and rheumatic disorders of skeletal system: Osteoporosis; Osteomalacia and rickets; Rheumatoid arthritis; Systemic lupus erythematosus; Ankylosing spondylitis; Gout; Osteoarthritis syndrome.
14	Alteration in immune response: Hypersensitivity disorders; Autoimmune disease; Transplantation immunopathology; Immunodeficiency disorders;
15	Review

Curriculum / Practical:

Week	Syllabus
1	General introduction and slide preparation.
2	Cell injury and degenerations.
3	Growth disturbances.
4	Inflammation.
5	Thrombosis.
6	Neoplasia.
7	Disorders of respiratory system.
8	Disorders of the cardiovascular system
9	Disorders of renal system.
10	Liver disorders.
11	Disorders of the gastrointestinal tract.
12	Disorders of the central nervous system.
13	Disorders of the reproductive system.
14	Disorders of skeletomuscular system.
15	Disorders of endocrine system.

References :**Main References :**

[1] Essentials in Pathophysiology by: Carol Mattson Porth; Latest edition.

Secondary References:

[1] Pathophysiology - Binder Ready, 7th Edition Author : Jacquelyn L. Banasik

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