LITERATURE

Kumar V, Abbas A, Aster J: Robbins Basic Pathology, 11th edition, Elservier Saunders, 2023.

Macroscopic and microscopic images from the practical part of course (ppt presentations)

L1, S1 - CELL INJURY, CELL DEATH, AND ADAPTATIONS I: Overview of cellular responses to stress and noxious stimuli, Causes of cell injury, Sequence of events in injury and cell death (p. 1-10)

L2, S2 - CELL INJURY, CELL DEATH, AND ADAPTATIONS: II: Mechanisms of cell injury and cell deaths, Cellular adaptations to stress, Intracellular and extracellular depositions, Cellular aging (p. 10-24)

L3, S3 – INFLAMMATION AND REPAIR I: General features of inflammation, Causes of inflammation, Recognitions of microbes and damaged cells, Acute inflammation, Mediators of inflammation (p. 25-39)

L4, S4 – INFLAMMATION AND REPAIR II: Morphologic patterns of acute inflammation, Outcomes of acute inflammation, Chronic inflammation, Systemic effects of inflammation, Tissue repair (p. 39-56)

L5, S5- HEMODYNAMIC DISORDERS, THROMBOEMBOLISM AND SHOCK Hyperemia and congestion, Edema, Haemorrhage, Hemostasis and thrombosis, Embolism, Infarction, Shock (p. 57-78).

L6, S6 – DISEASES OF THE IMMUNE SYSTEM I: The normal immune response, Cells of the immune system, Overview of lymphocyte activation and adaptive immune responses, Hypersensitivity: Immunologically mediated tissue injury (p. 131-149), Immunology of transplantation (p. 160-165)

L7, S7 – DISEASES OF THE IMMUNE SYSTEM II: Autoimmune diseases (p.149-160), Immunodeficiency syndromes (165-170) Acquired immunodeficiency syndrome (p. 175-176), Amyloidosis (p. 177-181)

L8, S8 - NEOPLASIA I: Nomenclature, Characteristics of benign and malignant neoplasms, Epidemiology, Cancer genes, Genetic lesions in cancer, Carcinogenesis: a multistep process (p. 187-199)

L9, S9 - NEOPLASIA II:, Hallmarks of cancer, Etiology of cancer, Clinical aspects of neoplasia (p. 200-230)

L10, S10 - GENETIC AND PEDIATRIC DISEASES: Marfan syndrome, Ehlers-Danlos syndrome, Familial Hypercholesterolemia, Cystic fibrosis, Phenylketonuria (p. 86-92); Complex multigenic disorders: Trisomy 21, Klinefelter syndrome, Turner syndrome (p. 97-105); Fragile X syndrome (p. 105); Congenital anomalies, Perinatal infections, prematurity and fetal growth restrictions, RDS, Necrotizing enterocolitis, SIDS, Fetal hydrops, Tumors and tumor like lesions of infancy and childhood (p. 109-122)

L11, S11 – BLOOD VESSELS: Structure and function of blood vessels, Congenital anomalies, Blood pressure regulation, Hypertensive vascular disease, Arteriosclerosis, Atherosclerosis, Aneurysms and dissections,Vasculitis, Disorders of blood vessels hyper reactivity, Veins and lypmphatics, Tumors (p. 274-304)

L12, S12 – HEART I: Overview of heart disease, Heart failure, Congenital heart diseases, Ischemic heart diseases, Arrhythmias (p. 308-326)

L13, S13 - HEART II: Hypertensive heart disease, Valvular heart disease, Cardiomyopathies, Myocarditis, Pericardial disease, Cardiac tumors (p. 308-341)

L14, S14 - THE HEMATOPOIETIC AND LYMPHOID SYSTEM I: Red cell disorder; Bleeding disorders; Complication of transfusion; Disorders of the spleen and thymus (p. 346-362; p. 383-390)

L15, S15 - THE HEMATOPOIETIC AND LYMPHOID SYSTEM II: White cell disorders (p. 362-383)

L16, S16 - LUNG I: Atelectasis (Collapse); ARDS; Obstructive and Restrictive pulmonary diseases; Obstructive lung (airway) diseases; Chronic interstitial (Restrictive infiltrative) lung diseases; Diseases of pulmonary vessels (p. 401-420)

L17, S17 - LUNG II: Pulmonary infections; Lung tumors; Pleural lesions; Lesions of the upper respiratory tract (p. 420-446)

L18, S18 – KIDNEY I: Clinical manifestations of renal diseases; Diseases of glomeruli (p. 450-464)

L19, S19 - KIDNEY II: Diseases affecting tubuls and interstitium; Diseases involving blood vessels; Chronic kidney diseases; Cystic diseases; Urinary tract obstruction; Neoplasms (p.464-479)

L20, S20 – ORAL CAVITIES AND GI TRACT I: Oral cavit), Esophagus, Stomach (p.484-503)

L21, S21- ORAL CAVITIES AND GI TRACT II: Small and large intestine (p. 503-527), Appendix (p. 527-528)

L22, S22 – LIVER AND GALLBLADDER I: General features of liver diseases, Infectious disorders, Autoimmune hepatitis, Drug and toxin induced liver injury, Alcohol-Related and Non-alcoholic fatty liver disease, Inherited metabolic liver diseases (p. 534-553)

L23, S23 – LIVER AND GALLBLADDER II: Cholestatic disorders, Circulatory disorders; Nodules and tumors, Gallbladder (p. 553-568)

L24, S24 – THE PANCREAS: Congenital anomalies; Pancreatitis; Pancreatic neoplasms (p. 572-580); Endocrine pancreas (p.661-666);

L25, S25 – THE MALE GENITAL SYSTEM AND LOWER URINARY TRACT: Penis; Scrotum, testis and epididymis; Prostate; Lower urinary tract; Sexually transmitted diseases (p. 582-599)

L26, S26 – THE FEMALE GENITAL SYSTEM I: Vulva; Vagina; Cervix; Uterus (P. 602-613)

L27, S27 – THE FEMALE GENITAL SYSTEM II: Fallopian tubes; Ovaries; Diseases of pregnancy (p. 613-621)

L28, S28- THE BREAST: Clinical presentations of breast disease; Inflammatory processes; Stromal neoplasms; Benign epithelial lesions; Carcinoma (p. 621-631)

L29, S29- THE ENDOCRINE SYSTEM I: Thyroid (p. 641-652); Parathyroid glands (p. 652-655)

L30, S30 - THE ENDOCRINE SYSTEM II: Pituitary (p. 637-641); Adrenal glands (p. 666-674), Multiple endocrine neoplasia syndromes (p. 674)

L31, S31 – BONES AND JOINTS I: Bone (p. 680-698)

L32, S32 – BONES AND JOINTS II: Joints (p. 698-707); Soft tissue tumors (p.707-711) + selected topics from PERIPHERAL NERVES AND MUSCLES (Myasthenia gravis and Lambert-Eaton syndrome p. 717; Duchenne and Becker Muscular Dystrophy p.718-720), Peripheral nerve tumors (p. 723-724)

L33, S33 – THE NERVOUS SYSTEM I: Edema, Herniation and hydrocephalus, Congenital malformation, Cerebrovascular diseases, Central nervous system trauma, Infections of the Nervous system (p.727-745)

L34, S34 - THE NERVOUS SYSTEM II: Nutritional disorders; Diseases of myelin; Neurodegenerative diseases; Tumors (p. 745-764)

L35, S35 – THE SKIN: Acute Inflammatory dermatoses; Chronic Inflammatory dermatoses; Infectious dermatoses; Blistering (Bullous) disorders; Tumors of the skin (p. 775-792)