



Second Year B. Sc. Nursing

Subject: Pathology

Faculty: Department of Pathology, Dr D.Y.Patil Medical College

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UNIT	TOPIC	No of lectures	Lecture Serial No
UNIT-I 1. Define the common terms used in pathology 2. Appreciate the deviations from normal to abnormal structure and functions of the body system 3 Hours	General Pathology o Introduction to pathology o Review of cell and tissues •• Definition of terms •• Methods & techniques •• Cellular & tissue changes •• Infiltration and regeneration •• Inflammations and infections •• Wound healing and repair	1	1
	o Nature of injuries, adaptive responses, reversible & irreversible cell injury o Cell accumulations Vascular changes Cellular growth and neoplasms	1	2
	•• Normal and cancer cell •• Benign and malignant growths •• In situ carcinoma Disturbances of fluid and electrolyte balance, role of nurse	1	3
UNIT-II Explain pathological changes in disease conditions of various systems 13 Hours	Systemic Pathology •• Pathological changes in disease conditions of various systems:	1	4

	<ul style="list-style-type: none"> ••Respiratory tract • Tuberculosis, Bronchitis, • Pleural effusion & Pneumonia 	1	5
	<ul style="list-style-type: none"> • Pleural effusion & Pneumonia • Lung abscess, emphysema, bronchiectasis 	1	6
	<ul style="list-style-type: none"> • Bronchial asthma, chronic obstructive pulmonary disease and tumours. 	1	7
	<ul style="list-style-type: none"> ••Cardiovascular system • Pericardial effusion 	1	8
	<ul style="list-style-type: none"> • Rheumatic heart disease 	1	9
	<ul style="list-style-type: none"> • Infective endocarditis, atherosclerosis 	1	10
	<ul style="list-style-type: none"> • Ischemia, infarction & aneurism ••Gastrointestinal tract • Peptic ulcer, Typhoid • Carcinoma of GI tract – buccal, esophageal, gastric and intestinal 	1	11
	<ul style="list-style-type: none"> ••Liver, Gall bladder & pancreas • Hepatitis, chronic liver abscess, Cirrhosis • Tumours of liver, gall bladder and pancreas • Cholecystitis 	1	12
	<ul style="list-style-type: none"> ••Kidneys & Urinary tract • Glomerulonephritis, pyelonephritis • Calculi, Renal failure, Renal carcinoma & Cystitis 	1	13
	<ul style="list-style-type: none"> • Diabetes Mellitus ••Male genital system • Cryptorchidism, testicularAtrophy 	1	14
	<ul style="list-style-type: none"> • Prostatic hyperplasia, Carcinoma penis & prostate ••Female genital system • Fibroids 	1	15
	<ul style="list-style-type: none"> • Carcinoma cervix & endometrium • Vesicular mole, choriocarcinoma • Ectopic gestation • Ovarian cyst & tumours ••Cancer breast ••Central Nervous System 	1	16

	<ul style="list-style-type: none"> • Vascular disorders – thrombosis, embolism • Stroke, paraplegia, quadriplegia • Tumours, meningiomas- gliomas • •Metastatic tumour • •Skeletal system • Bone healing, osteoporosis, osteomyelitis • •Arthritis and tumours 		
UNIT-III	Haematology & Pathology		
Laboratory test in assessment And monitoring of disease conditions	<ul style="list-style-type: none"> • •Various blood and bone marrow tests in assessment and monitoring of disease conditions • Hemoglobin • RBC, white cells & platelet Counts 	1	17
4 Hours	<ul style="list-style-type: none"> • Bleeding time, clotting time and prothrombin time • Blood grouping and cross matching • Blood chemistry • Blood culture 	1	18
	<ul style="list-style-type: none"> • Serological and immunological tests • Other blood tests • Examination of bone marrow 	1	19
	<ul style="list-style-type: none"> • Methods of collection of blood specimen for various clinical pathology, biochemistry, microbiological tests, inference and normal values o Nurse’s role in collection and dispatch of various samples for laboratory tests. o Universal safety precautions • •Arthritis and tumours. 	1	20
UNIT-IV	Examination of body cavity fluids, transudates and exudates		
Laboratory tests for examination of body cavity fluids,transudates and exudates	<ul style="list-style-type: none"> • •The laboratory tests used in CSF analysis • •Examination of other body cavity fluids, transudates and exudates sputum, wound discharge etc. • •Analysis of gastric and duodenal contents 	1	21
2 Hours			
Laboratory test in assessment and monitoring	<ul style="list-style-type: none"> • •Analysis of semen- sperm count, motility and morphology and their importance in infertility • •Methods of collection of CSF and other cavity fluids specimen for 	1	22

of disease conditions	various clinical pathology, biochemistry, microbiology tests, inference and normal values. <ul style="list-style-type: none"> • Nurse's role in assisting and preparing the patient for these diagnostic tests 		
UNIT-V Describe the laboratory tests for examination of Urine and Faeces 1 Hour	Urine & Faeces <ul style="list-style-type: none"> • Urine • Physical characteristics • Analysis • Culture and sensitivity • Characteristics • Characteristics • Stool examination: occult blood, ova, parasite and cyst, reducing substance etc. • Methods of collection for various tests, inference and normal value 	1	23
LAB-7 Hours	Museum specimens of, <ul style="list-style-type: none"> o Respiratory disorders 	2	2
	<ul style="list-style-type: none"> o Tuberculosis o Cardiovascular disorders-IE, RHD, Hypertension, MI 	2	4
	<ul style="list-style-type: none"> o Ulcers of GIT o Hepatobiliary disorders 	2	6
	<ul style="list-style-type: none"> o Renal diseases o Female genital tract 	1	7

Bibliography - Pathology

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12. Haber et al : Differential diagnosis in pathology , W B Saunders coy, Philadelphia, 2002.