

Community College of Rhode Island

NURS 1020/ADNU 2040

Course Content

2010

	NURS 1020		ADNU 2040	
SUBJECT	Hours of Lectures	Course Content	Hours of Lectures	Course Content
Hematology	3	Anemias Polycythemia Leukopenia Thrombocytopenia Hemophilia Leukemia Lymphomas Multiple Myeloma Blood Transfusions	0	
Cardiovascular	8	Cardiac Assessment	9	Cardiac Assessment (review) Hemodynamic monitoring
		- Electrocardiogram - Sinus Node Dysrhythmias and ECG appearance - Atrial fibrillation and ECG appearance		Dysrhythmias and ECG Analysis: - Atrial, Junctional, Ventricular Dysrhythmias Pacemaker Therapy Implantable Cardioverter Defibrillator
		Coronary Artery Disease - Coronary Atherosclerosis - Angina Pectoris - Myocardial Infarction - Percutaneous Coronary Interventions		Coronary Artery Disease - Myocardial Infarction (indepth) - Drug Therapy Cardiac Surgery: CABG, Heart Transplants
		Valvular Disorders: - Mitral Valve Prolapse, Mitral Regurgitation Infectious Diseases of the Heart: - Endocarditis, Myocarditis, Pericarditis		Valvular Disorders: - Mitral Stenosis - Aortic Stenosis, Aortic Regurgitation - Valve repair and Replacement Cardiomyopathy
		Heart Failure - Chronic Heart Failure - Acute Heart Failure (Pulmonary Edema)		Heart Failure: - Chronic Heart Failure - Acute Heart Failure (Pulmonary Edema) Cardiogenic Shock Pericardial Effusion and Cardiac Tamponade
				Cardiogenic Shock
				Aneurysm - Thoracic Aortic Aneurysm - Abdominal Aortic Aneurysm

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Peripheral Vascular Disease	3	Anatomy & Physiology of Vascular System Arteriosclerosis & Atherosclerosis Peripheral Arterial Occlusive Disorder Buerger's Disease, Raynaud's Disease Thrombophlebitis Arterial/Venous Leg Ulcers Varicose Veins	0	(see previous section) Aneurysm - Thoracic Aortic Aneurysm - Abdominal Aortic Aneurysm
		Hypertension		
Upper Respiratory	2	Assessment of Upper Respiratory Structures	0	
		Upper Airway Infections: - Rhinitis, Sinusitis, Pharyngitis, Tonsillitis - Peritonsillar Abscess, Laryngitis Obstruction and Trauma of the Upper Airway: - Sleep Apnea, Epistaxis, Fracture of the Nose, - Cancer of the Larynx (medical/surgical mgmt) Tracheostomy Care		
Lower Respiratory	8	Assessment of Respiratory Function	3	Anatomy & Physiology Overview Ventilation/Perfusion Balance and Imbalance
		Atelectasis Pneumonia Pulmonary Tuberculosis Pleural Effusion Pulmonary Embolism Lung Cancer (medical and surgical management) Pneumothorax		Acute Respiratory Failure Acute Respiratory Distress Syndrome Aspiration
		COPD: Chronic Bronchitis, Emphysema Asthma		
		Oxygen Therapy Incentive Spirometry , Mini-Nebulizer Therapy Chest Physiotherapy Chest Drainage Systems Thoracic Surgery		Airway Management Mechanical Ventilation Weaning the Patient from Ventilator Prevention of Ventilator Acquired Pneumonia
		Acid Base Disturbances & ABG Analysis		(see Complex Fluid & Elect) Acid-Base Disturbances - Resp Acidosis/Alkalosis

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Diabetes Mellitus	4	Type 1, Type 2 and Gestational Diabetes - pathophysiology, diagnostic tests - nutrition therapy, drug therapy - exercise therapy, weight mgmt, - Acute complication: Hypoglycemia, - Acute complication: DKA (brief overview) - Long Term complications	3	- Diabetic Ketoacidosis - pathophysiology & treatment - Hyperglycemic Hyperosmolar Nonketotic Syndrome
Endocrine	3	Thyroid Disorders - Hyperthyroidism, Hypothyroidism - Thyroiditis, Cancer of the Thyroid Parathyroid Disorders - Hypo and Hyperparathyroidism Adrenal Disorders - Pheochromocytoma - Adrenocortical Insuffic. (Addison's Disease) - Cushing's Syndrome	3	Pituitary disorders - Diabetes Insipidus - Syndrome of Inapprop ADH secretion Thyroid Disorders - Thyroidectomy - Thyroid Storm - Myxedema Coma Parathyroid Disorders - Parathyroidectomy Adrenal Disorders - Addisonian Crisis - Cushing's Syndrome - Corticosteroid Therapy - Primary Aldosteronism
Neurocognitive	8	Assessment of Neurologic Function	6	Assessment of Neurologic Function
		Altered levels of Consciousness Increased Intracranial Pressure Seizure Disorders Headache/ Migraines		Increased Intracranial Pressure (1 ^o lecture) Intracranial Surgery (1 ^o lecture)
		Head Injury Brain Injury		Traumatic Brain Injury (1 ^o lecture) Spinal Cord Injury (3 ^o lecture)
		Meningitis Multiple Sclerosis Myasthenia Gravis Guillian-Barre Syndrome		
		Parkinson's Disease Alzheimer's Disease Amyotrophic Lateral Sclerosis - brief overview		Brain Tumors Degenerative Disk disease Herniated Disks - medical and surgical mgmt
CVA	2	Ischemic Stroke - Transient Ischemic Attack - Carotid Endarterectomy Hemorrhagic Stroke		Hemorrhagic Stroke (covered in neurocognitive)

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Musculoskeletal	7	Assessment of Musculoskeletal Function	0	
		Rheumatoid Arthritis Systemic Lupus Erythematosus Degenerative joint disease (Osteoarthritis) Fibromyalgia, Gout		
		Musculoskeletal Care Modalities - casts, splints, braces, external fixator, traction Total Hip Replacement Total Knee Replacement		
		Acute Low back Pain Diseases of the hand and foot: - Carpal Tunnel Syndrome, Ganglion - Dupuytren's Disease, bunion, hammer toe Bone Disorders: - Osteoporosis, Osteomalacia, - Paget's Disease, Osteomyelitis Bone Tumors		
		- Amputations, Fractures - brief overview of the following topics: Strains, Sprains, Rotator Cuff Tear, ACL Tear		
Renal	5	Assessment of Renal and Urinary Tract Function	3	Assessment of Renal and Urinary Tract Function
		Acute and Chronic Glomerulonephritis Nephrotic Syndrome Acute Renal Failure		Chronic Renal Failure (ESRD) Dialysis: hemodialysis, CRRT, peritoneal dialysis Kidney Transplantation
		Infections of the Urinary Tract Incontinence, Retention, Neurogenic Bladder Urolithiasis, Nephrolithiasis		Genitourinary Trauma Cancer of the Bladder Urinary Diversions
		Benign Prostatic Hyperplasia		Cancer of the Prostate
Cancer	6	Pathophysiology Detection and Prevention of Cancer Management: surgery, radiation, chemotherapy - immunotherapy, bone marrow transplantation	0	

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Upper GI	4	GI Assessment related to UGI	0	
		Oral Disorders: - Cancer of the Oral Cavity - Premalignant lesions - Stomatitis Esophageal Disorders: - Achalasia, Stricture, Diverticula - Hiatal Hernia, GERD, Cancer of the Esophagus		
		Nasogastric Intubation		
		Gastric and Duodenal Disorders: - Gastritis, Peptic Ulcer Disease, Gastric Cancer Morbid Obesity and Bariatric Surgery		
Lower GI	4	GI Assessment related to LGI	0	
		Intestinal and Rectal Disorders - Malabsorption, Appendicitis, Diverticulitis - Peritonitis, Crohn's Disease, Ulcerative Colitis - Gastroenteritis, Intestinal Obstruction, Hernias - Colorectal Cancer - Colostomy, Ileostomy		
Gall Bladder Liver, Pancreas	5	Cirrhosis & S/Sx of Hepatic Dysfunction: - jaundice, ascites, portal hypertension - esophageal varices - Hepatic encephalopathy and Coma Types of Hepatitis	3	Cirrhosis Complications of Portal Hypertension Sengstaken-Blakemore tube/bleeding varices Portal Systemic Venous Shunts Liver Transplantation
		Disorders of the Gall Bladder - cholecystitis, cholelithiasis, cholecystectomy Disorders of the Pancreas: - Acute and Chronic Pancreatitis		
Eye	2	Disorders of the Eye: - Conjunctivitis, Cataracts, Glaucoma Retinal disorders: - Retinal detachment, Macular Degeneration Corneal Disorders Refractory Errors Trauma	0	

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Ear	1	External Ear Disorders: - cerumen impaction, foreign bodies - external otitis Middle Ear Disorders: - tympanic membrane perforation - acute/chronic otitis media Internal Ear Disorders - motion sickness, Meniere's disease, Tinnitus Hearing Loss	0	
Complex Fluid & Electrolytes	0		3	Hypovolemia/Hypervolemia Electrolyte Imbalances Acid-Base Disturbances: - Respiratory Acidosis/Alkalosis - Metabolic Acidosis Alkalosis
Traumatic Injuries	0		3	Shock and Multisystem Failure - cardiogenic shock, hypovolemic shock - septic shock, neurogenic shock - anaphylactic shock
				Trauma: - Intra-abdominal injuries, crush injuries - Fractures
Burn Injuries	0		3	Burn Injuries: Local and Systemic Effects Management of Burn Injury

Medical-Surgical Concepts Introduced in NURS 1010

CONCEPT	Hours of Lecture
Vital Signs	2
Physical Assessment	4
Infection Control	3
Infectious diseases	1
Wound Care	2
Thermoregulation: - (hot/cold applications)	1
Immobility Management	2
Nutrition Support	5
Elimination	3
Fluid & Electrolytes	4
Perioperative Management	5