

Course Plan of (Critical care nursingI)

Course Description:

Critical care nursing is a specialized field of nursing focused on providing care to patients who are critically ill or at high risk for life-threatening conditions. These patients typically require close monitoring, advanced medical interventions, and continuous support. Critical care nurses, often referred to as ICU (Intensive Care Unit) nurses, play a vital role in maintaining the health and stability of patients in critical condition. Below is a detailed description of critical care nursing

Course Content:

A – Theoretical Aspect:

	Cont act hour s	N o. of W ee k s	Sub Topics List	Units/Topics List	O r d e r
	4	1	- Overview of critical care environments (ICU, CCU, trauma units, etc.) - Roles and responsibilities of critical care nurses - Ethical and legal issues in critical care (e.g., informed consent, end-of-life care) - Communication with families and interdisciplinary teams	<i>1. Introduction to Critical Care Nursing</i>	1
	4	1	Physical Assessment: Systematic head-to-toe assessment techniques for critically ill patients Vital Signs Monitoring: Interpretation of blood pressure, heart rate, respiratory rate, and oxygen saturation Hemodynamic Monitoring: Central venous pressure, pulmonary artery pressure, and cardiac output monitoring Neurological Monitoring: Glasgow Coma Scale, intracranial pressure	<i>, 2. Advanced Patient Assessment and Monitoring</i>	2

			monitoring		
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	4	1	- Acute coronary syndrome, myocardial infarction, and heart failure - Electrocardiogram (ECG) interpretation and arrhythmia management - Advanced cardiac life support (ACLS) protocols - Use of pacemakers, defibrillators, and other cardiac devices	3. Management of Cardiac Conditions	3
	4	1	- Management of patients on mechanical ventilation - Non-invasive ventilation techniques (e.g., CPAP, BiPAP) - Care for patients with respiratory failure, ARDS, COPD, and pneumonia - Interpretation of arterial blood gases (ABGs)	4. Respiratory Care in Critical Care	4
	4	1	- Fluid and electrolyte balance in critically ill patients - Renal replacement therapies, including dialysis in the ICU - Management of acute kidney injury and chronic renal failure		5
	4	1	- Care for patients with traumatic brain injury (TBI), stroke, and seizures - Neurological assessments and intracranial pressure monitoring - Care of unconscious or comatose patient	6. Management of Neurological Conditions	6
	2	1	Midterm exam		7
	8	2	- Management of sepsis and septic shock - Prevention and management of	7. Infectious Diseases and Sepsis	8

			hospital-acquired infections (e.g., ventilator-associated pneumonia, central line infections) • Use of antibiotics and antimicrobial stewardship in critical care		
	4	1	Initial assessment and management of trauma patients Airway management, chest injuries, burns, and hemorrhage control Emergency response protocols, triage, and mass casualty management	8. Trauma and Emergency Care	9
	4	1	• Critical care pharmacology, including vasoactive drugs, sedatives, and analgesics • Safe administration and monitoring of high-alert medications • Drug-drug interactions and adverse reactions in critically ill patients	<i>9. Pharmacology in Critical Care</i>	10
	4	1	• Enteral and parenteral nutrition in the critically ill • Managing metabolic disorders (e.g., diabetic ketoacidosis, hyperglycemia) • Nutritional support for patients with organ failure	<i>10. Nutrition and Metabolic Support</i>	11
	4	1	Palliative care and ethical decision-making in critical care settings Management of comfort care and withdrawal of life support Communicating with families about prognosis and end-of-life decisions	11. End-of-Life Care in the ICU	
	4	2	Strategies for coping with the emotional and psychological challenges of critical care nursing Importance of teamwork and collaboration in the ICU Continuous professional development and certifications in critical care	12. Professional Development and Self-Care	

	2	1	Final exam	1 2
	6 0	1 6	Number of Weeks /and Units Per Semester	

B - Practical Aspect:				
Learning Outcomes	contact hours	Number of Weeks	Tasks/ Experiments	Order
-	4	1	Introduction to Critical Care Nursing	
	4	2	2. Advanced Patient Assessment and Monitoring	
	4	2	3. Management of Cardiac Conditions	
	4	2	. Respiratory Care in Critical Care	
	4	2	6. Management of Neurological Conditions	
	4	2	7. Infectious Diseases and Sepsis	
	8	4	8. Trauma and Emergency 9. Pharmacology in Critical Care 10. Nutrition and Metabolic Support 11. End-of-Life Care in the ICU 1. End-of-Life Care in the ICU	
	32	16		
			Number of Weeks /and Units Per Semester	