

MEDICAL SURGICAL NURSING

Placement: First Year

Time Allotted: Theory - 90 Hrs
Practical - 270 Hrs

COURSE DESCRIPTION

The purpose of this course is to widen the students' knowledge and develop proficiency in caring for patients with medical surgical problems. This course includes review of relevant anatomy and physiology, pathophysiology in medical-surgical disorders and the nursing management of these conditions. .

OBJECTIVES

At the end of the course, the student will

1. Explain relevant Anatomy and Physiology of various systems of the body.
2. Explain pathophysiology of various disorders.
3. Explain the actions, side effects and nursing implications in administering drugs for various disorders.
4. Discuss the recent advancement in the treatment and care of patients with medical surgical conditions.
5. Develop skill in giving comprehensive nursing care to patients following the steps of nursing process.
6. Assist the patients and their families in identifying and meeting their own health needs.
7. Appreciate the role of the nurse in the medical surgical health team.

COURSE CONTENTS

UNIT I

Introduction to medical surgical nursing.
Review of concepts of comprehensive nursing care in medical surgical conditions.
Nurse, patient and his/her family.
Functions of nurse in the outpatient department.
Intensive care unit.

UNIT II

Nursing management of patient with specific problems.
Fluid and electrolyte imbalance.
Dyspnea and cough, respiratory obstruction
Fever
Shock
Unconsciousness
Pain
Acute illness
Chronic illness

Terminal illness
Age related illness
Patient under going surgery
Incontinence

UNIT III

Nursing management of patient with neurological and neuro surgical conditions.
Review of anatomy and physiology of the nervous system.
Pathophysiology, diagnostic procedures and management of :
Cerebro-vascular accident.
Cranial, spinal and peripheral neuropathies.
Head -ache and intractable pain.
Epilepsy.
Infectious and inflammatory diseases and trauma of the Nervous System.
Common disorders of the system.
Recent advances in diagnostic and. treatment modalities.
Drugs used in these disorders.
Tumors of brain & spinal cord, congenital malformations, degenerative diseases.

UNIT IV

Nursing management of patient with cardiovascular problems.
Review of relevant anatomy and physiology of cardio vascular system.
Pathophysiology, diagnostic procedures and management of
Ischemic Heart diseases.
Cardiac arrhythmias.
Congestive heart failure.
Rheumatic and other valvular heart diseases
Endocarditis, cardiomyopathies, congenital heart diseases, hypertension, heart block
Cardiac emergencies: cardiac arrest, acute pulmonary oedema, cardiac tamponade, cardiogenic shock, aneurysms and peripheral vascular disorders, recent advancement in cardiology.

UNIT V

Nursing management of patient with respiratory problems.
Review of anatomy and physiology of respiratory system, Pathophysiology, diagnostic procedures and management of upper respiratory tract infections.
Bronchitis
Asthma
Emphysema, Empyema, Atelectasis, COPD Bronchiectasis
Pneumonia
Pulmonary tuberculosis
Lung abscess
Pleural effusion
Tumours and Cysts

Chest injuries
Respiratory arrest and insufficiency
Pulmonary embolism
Drugs used in the management of these patients
Special respiratory therapies.

UNIT VI

Nursing management of patient with genito-urinary problems.
Review of anatomy and physiology of the genito-urinary system
Nephritis
Renal calculus
Acute renal failure
Chronic renal failure
End stage renal disease
Special procedures, dialysis, renal transplant
Drugs used in management of these patients
Congenital disorders, urinary infections
Benign prostate hypertrophy.

UNIT VII

Nursing management of patients with problems of the digestive systems.
Review of anatomy and physiology of gastrointestinal system and accessory organs.
Pathophysiology, diagnostic procedures and management of
GI Bleeding
Peptic ulcer
Infections
Acute abdomen
Colitis, diarrhoea, dysentery & mal-absorption syndrome.
Cholecystitis
Hepatitis, hepatic coma and cirrhosis of liver
Portal hypertension
Pancreatitis
Tumors, hernias, fistulas, fissures, hemorrhoids.
Drugs used in the management of these patients.

UNIT VIII

Nursing management of patients with endocrine problems
Review, of anatomy and physiology and patho-physiology of patients with
Thyroid disorders
Diabetes mellitus
Diabetes insipidus
Adrenal tumour
Pituitary disorders.

Diagnostic procedures
Nursing management of patient with above problems.
Drugs used in endocrine problems.

UNIT IX

Nursing management of patients with musculoskeletal problems.
Review of anatomy and physiology and pathophysiology
Arthritis, osteomyelitis, bursitis,
Fractures, dislocation and trauma
Prolapsed disc
Osteomalacia and osteoporosis
Tumor
Amputation
Diagnostic procedures
Nursing management of patients with above problems.
Prosthesis and rehabilitation.
Transplant & replacement surgeries.

UNIT X

Nursing management of patients with disorders of female reproductive tract
Disorder of menstruation
Infections of the genital tract
Benign and malignant tumors of the genital tract
Recto Vaginal Fistula(R.V.F.), Vesico Vaginal Fistula (V.V.F.)
Climactic changes and associated problems.

UNIT XI

Nursing management of patients with Oncological disorders.
Types of neoplasms and related pathophysiology.
Diagnostic procedures
Modalities of treatment and nurse's role.
Special therapies.- chemotherapy and radiotherapy.
Preventive measures, other therapies.

UNIT XII

Nursing management of patient with burns.
Nursing management of patient with reconstructive surgeries.

UNIT XIII

Nursing management of patients with common communicable diseases & STD'S
Nursing management of patients with immunological disorders including HIV / AIDS

UNIT XIV

Nursing management of patients with diseases of eye, ear, nose, throat & skin.

UNIT XV

Nursing management of patients with blood disorders

Review of Anatomy & Physiology of Blood and Blood products.

Patho-physiology, diagnostic procedures and management of blood disorders

Anemia

Leukemia

Bleeding disorders

Hemophilia

Purpura etc.

Blood transfusion, safety checks, procedure and requirements, management of adverse transfusion reaction, records for blood transfusion.

Management and counseling of blood donors, phlebotomy procedure, and post donation management

Blood bank functioning and hospital transfusion committee

Bio-safety and waste management in relation to blood transfusion.

UNIT XVI

Nursing in emergencies.

Cardiac emergencies

Trauma

Poisoning

Crisis management: Thyroid crisis, Hypertensive crisis, adrenal crisis.

PRACTICUM

Students should rotated in the selected medical & surgical areas, like Cardio Thoracic, Neurology, Urology, Orthopedics, Gynecology, Oncology, Burns and Reconstructive surgical units.

The students should given patient assignment. They have to practice patient centered comprehensive nursing.

Each student is required to give planned health teachings, conduct clinical teaching, case presentation and drug study.