

# Medical Surgical Nursing-I

Hrs.140

This course will help students understand the concept of disease and disease process. students will be able to gain knowledge and develop understanding of various medical surgical disorders and diseases. They will be able to give comprehensive nursing care to patients with these diseases.

## General Objectives

Upon completion of this course the students will be able to;

- Describe the causes, symptoms, treatment and prevention of medical surgical diseases.
- Demonstrate skill in carrying out nursing technique and procedures with the application of scientific principles.
- Discuss nursing process and provide nursing care to patients with medical surgical/diseases.

## Course Content

### Unit-I Introduction

- Brief history of evolution of modern medicine and surgery and theories of illness and its causation.
- Illness as human experience.
- nursing process and nursing care plan.

### Unit-II Nursing Assessment

- Health Assessment
- Physical examination
- General clinical investigations.

### Unit-III Pathos Physiological Mechanism of Disease

- Inflammation.
- Stress adaptation.
- Defence against injury.
- Nutritional consideration.

### Unit-IV Altered Immune Response

- Review of Normal Immunity. (Review Unit IV of Microbiology)
- altered Immune response hypersensitivity and allergy.
- Nursing management of immuno therapy.
- Auto immune disease.
- Graft versus host disease.

### Unit-V Clinical Pharmacology

- Terminology
- Drugs and laws.
- Basic clinical pharmacology.
- Sources of drugs action side effects doses of drugs .
- Different pharmacological preparations.
- Administration of medicine to patient.
- nursing implications of administration of drugs.

### Unit-VI Nurse's role in Management of Fluid Electrolyte

- and acid base Balance
- Water content of body.
- Homeostasis.
- Review mechanism of controlling fluid and electrolyte movement.
- Review regulation of fluid and electrolyte.
- Fluid and electrolyte imbalance and their the rapeutic management.

#### Unit-VII management of patients in pain

- Concept.
- Assessment
- Types, location.
- Nursing management
- analgesic drugs.
- Therapeutic approaches to pain.

#### Unit-VIII Operation Theatre Technique physical Environment

- Operation theatre: cleaning of rooms, tables, trolleys, lights and other equipments.

##### Pre-operative holding area.

- Scrubbing-hand washing
- Gowning.
- Gloving.
- Positioning of patient for various surgical procedures.

##### Preparation of Theater equipment & supplies

- Cleaning
- Packing
- Sterilization
- Needles, Sutures-types and their uses.

#### Unit-IX Management of patient undergoing Surgery

- Assessment of pre-operative patient: physical psychosocial and physiological aspects.
- Nursing management of pre-operative patient.

##### Intra Operative Management

- Surgical team.
- Nurse's functions in Operation Theatre.
- Anesthesia: classification, anesthetic agents and role of a nurse in anesthesia.

##### Post-operative management – immediate and Routine

- Transferring patient from Operation Theatre.
- Patient in recovery room.
- Recovery from anesthesia.
- Post-operative complications: observation, prevention and management.

#### Unit-X Nursing management of patient with impaired

##### Respiratory function and Gaseous Exchange

- Assessment of respiratory functions.
- management of patient with impaired respiratory functions.
- Respiratory intensive care.
- Management of patients with disorders of upper respiratory tract.

- Management of patients with disorders of the chest and lower respiratory tract.

#### Unit-XI Nursing Management of patients with digestive and gastro-Intestinal Disorders

- Assessment of Gastro-intestinal functional disorders
- Management of upper gastro-intestinal Nutritional Management
- Management of patient with lower gastro-intestinal disorders

#### Unit-XII Nursing Management of patients with Metabolic and Endocrine Disorders

- Assessment of hepatic and biliary function.
- Management on hepatic and biliary disorders
- Assessment of endocrinal function.
- Management of endocrinal disorders.

#### Unit-XIII Nursing Management of patients with Renal and Urinary Disorders

- Assessment of renal and urinary functions.
- Managements of patients with urinary and renal disorders.
- renal failure and dialysis.
- Renal transplant.

#### Unit-XIV Nursing Management of patients with Neurological disorders

- Assessment of neurological function.
- Management of patient with neurological dysfunction.
- management of patient with neurological disorders.

#### Unit-XV Nursing Management of Patients with disorders of connective Tissue and Collagen Disorders.

- Assessment
- Management of patients with disorders of connective tissue and collagen.

#### Unit-XVI Nursing Management of the elderly.

- Assessment of elderly.
- ageing process.
- Helping in promoting wellness and self care
- Health problems in elderly.

#### Unit-XVII Emergency management

- Medical surgical emergencies.
- Nurse's role in emergency conditions.

## Medical Surgical Nursing-II

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This course will help students understand the concept of disease and disease process. students will be able to gain knowledge and develop understanding of various medical surgical specialty disorders and diseases. They will be able to give comprehensive nursing care to patients with these diseases.

### General Objectives

#### General Objectives

Upon completion of this course the students will be able to;

- Describe the causes, symptoms, signs, treatment and prevention of diseases classified under medical surgical specialties.
- Demonstrate skill in carrying out nursing technique and procedures with the application of scientific principles.
- Prepare nursing care plan using nursing process and provide care to patients with these diseases.

### Course Content

#### Unit-I Oncology Nursing

- Nursing management of patient with abnormal cell growth.
- Assessment.
- Problems and management.
- Classification of cancer.
- Detection prevention.
- Treatment modalities.

Nursing management of patient receiving:

- Chemotherapy.
- Radiation.
- Late effects of chemotherapy and radiation.
- Nursing management of patient undergoing radical surgery.
- Bone marrow transplant and its management
- Nursing management of terminally ill patient.
- Rehabilitation of cancer patients..

#### Unit-II Nursing Management of patients with diseases of

##### Male Genito-Urinary Tract

- Assessment of genitor-urinary function
- Disorders of male genitor-urinary tract and its management.

#### Unit-III Nursing Management of patients with diseases of

##### Breast

- Assessment
- Disorders of breast and breast cancer.
- Management of patient undergoing surgery for cancer breast.

#### Unit-IV Nursing Management of patients with Diseases

##### and disorders of integument system

- Assessment of skin and its functions.
- Inflammatory and non-inflammatory disorders and diseases and its management.

- Infestations infectious and non-infectious diseases and their management.
- Skin cancer
- Special dermatological therapy.
- Burn and its management.

Unit-V Nursing Management of patients with Ophthalmic disorders and Diseases

- Assessment of function of eyes.
- Diseases and disorders of eyes and their management
- Review national programmes on blindness and trachoma

Hospital Cornea Retrieval

- Grief counseling eye collection in hospitals
- Motivation for eye donation.
- Obtaining consent for eye donation
- Transplantation of human organs bill and eye collection.
- Eye banking in India

Unit-VI Nursing Management of Patients with Disorders and Disorder and diseases of Ear Nose and Throat

- Assessment of the function pf Ear, Nose and Throat.
- Disorders and diseases pf the Ear, Nose and Throat.
- Management of disorder and diseases of Ear, Nose and Throat.

Unit-VII Nursing Management of patients with cardio-Vascular, Circulatory and Hematological Disorders

- Assessment of cardio-vascular functions.
- Management of patients with cardio-vascular diseases.
- Management of patient in I.C.U and C.C.
- Management of patient with cardio-vascular surgery
- Assessment and management of circulatory, hematological disorders and problems of peripheral circulation.
- Phlebotomy procedure in blood donors.
- Sample and request for blood transfusion.
- Safety checks and records for blood transfusion.
- Adverse transfusion reaction and their management. Blood bank functioning-Hospital transfusion committee.
- Blood donor care, post donation management, counseling of blood donors.
- Inventory of necessary requirement for the transfusions.

Unit-VIII Nursing Management of patients with communicable diseases

- Assessment.
- Review of infection how it spreads and its control.
- Preparation, care and administration of antisera and vaccines.
- Isolation- review of epidemiology and control measures.
- management of various infectious diseases.

Diseases caused by:

Virus - Measles, Chicken pox influenza,  
Small pox Mumps, Encephalitis,  
infective Hepatitis, Poliomyelitis,  
Rabies AIDS.

Bacteria- Diphtheria, Whooping Cough,  
Tetanus, Typhoid, Dysentery Gastro-  
enteritis, cholera, Meningococcal  
Meningitis Tuberculosis.

Zoonosis – Kala-azar, plague, Relapsing fever.

Mosquito – Malaria, filarial, Yellow fever,  
Dengue Fever.

Unit-IX Nursing Management of patients with Sexually  
transmitted diseases

- Assessment
- Sex health and hygiene.
- Gonorrhoea, Syphilis, Graunloma venerium. chancroid Granuloma inguinale and AIDS.

Unit-X Nursing Management of patients with Musculo-skeletal  
Disorders and Diseases.

- Assessment of Musculo-skeletal functions.
- Disorders and diseases of bone, muscle, cartilage, ligaments and their management.
- Rehabilitation, physiotherapy and occupational therapy

Unit-XI Emergency and disaster Nursing

- Natural calamities
- Manmade disaster.
- Community resources available to meet such calamities, Nurse's role in disaster management.