



EDO UNIVERSITY IYAMHO
Department of Computer Science
NSC 301 Medical Surgical Nursing

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Lectures: Monday, 10am – 12 pm, LT3, phone: (+234) 8062489290

Office hours: Monday, 8 am to 9:45 am (just before class), Office: Department of Nursing Rm 37

Teaching Assistants: *Mr. N.E Chukwuyem*

General overview of lecture: This course is in two aspects: theory and practice. The first aspect introduces the students to the specialization of medical-surgical nursing by building on the knowledge gained from the foundation of nursing science. As an introductory course, it introduces the students to terminologies of medical-surgical nursing, basic concepts, such as adaptation, holistic approach to nursing care, homeostasis, immunology and psycho-physiologic response to illness and nursing intervention, transcultural nursing, evidenced based nursing and implication for nursing practice; body defence mechanism; basic diagnostic measures in medical-surgical nursing and implication for nursing practice; concept and philosophy of rehabilitation. It also covers the use of nursing process as a framework for nursing practice, history and physical assessment of patients, fluid and electrolyte balance investigation and care of patients undergoing surgery.

The second aspect entails both the laboratory and clinical practice in medical-surgical nursing practicum that includes; care of the patients with respiratory disorder, reproductive system disorder and surgical patients as well as care of the patients with emergencies, before and after operation, also caring for patients with disorders of the cardiovascular system.

Prerequisites: Students should have knowledge of foundation of professional nursing practice and theory, anatomy, physiology and biochemistry.

Learning outcomes: At the completion of this course, students are expected to

- i. Identify physiologic and psychosocial stressors.
- ii. Describe the inflammatory and reparative processes
- iii. Describe the goals of rehabilitation.
- iv. Describe measures used for preventing complications of intravenous therapy
- v. Define the three phases of perioperative patient care.
- vi. Use the nursing process as a framework for care of the patient with pneumonia.

Assignments: We expect to have 3 homework assignments throughout the course in addition to a Mid-Term Test and a Final Exam. Term papers are given at the beginning of the class and submission will be on the due date. Home works in the form of individual assignments, and group assignments are organized and structured as preparation for the midterm and final exam, and are meant to be a studying material for both exams.

Grading: We will assign 10% of this class grade to home works, 10% for seminar presentations, 10% for the mid-term test and 70% for the final exam. The Final exam is comprehensive.

Textbook: The recommended textbook for this class are as stated:

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Title: Brunner & Suddarth's Textbook of Medical-Surgical Nursing.
Authors: Smeltzer, S.C., Bare, B.G., Hinkle, J.L and Cheever, K.H
Publisher: Wolters Kluwer Health / Lippincott Williams & Wilkins.
ISBN-978-1-60831-080-7

Year: 2010

Title: Introductory Medical-Surgical Nursing

Authors: Timby, B.K and Smith, N.E.

Publisher: Wolters Kluwer Health / Lippincott Williams & Wilkins.

ISBN- 978-1-60547-063-4

Year: 2010

Courseware: - CSC 301 – Medical Surgical Nursing

The following documents outline the courseware for the course NSC301- Medical Surgical Nursing. Much of these materials are taken from recommended text books

1: Biophysical and Psychosocial Concepts in Nursing Practice.

- i. Terminologies Used in Medical-Surgical Nursing
- ii. Homeostasis, Stress and Adaptation
- iii. Holistic approach to nursing care
- iv. Inflammation and Infection
- v. Loss, Grief and Dying

2: Concept and philosophy of Rehabilitation

- vi. Concept of Rehabilitation
- vii. Types of Rehabilitation
- viii. Patients' Reactions to Disability
- ix. Assessment of Functional Ability
- x. Fatigue

3: Basic Diagnostic Measures in Medical Surgical Nursing and Nursing Interventions

- xi. Fatigue
- xii. Blood Tests
- xiii. Urine Tests
- xiv. Sputum and Tissue Tests
- xv. Radiological Investigations
- xvi. Lumbar Puncture
- xvii. Endoscopy

4: Fluid and Electrolytes: Balance and Disturbance

- xviii. Fundamental concept
- xix. Composition of Body Fluid
- xx. Fluid Volume Disturbances
- xxi. Electrolyte Imbalances

5 : Perioperative Concepts and Nursing Management

- xxii. Preoperative Phase
- xxiii. Intraoperative Phase
- xxiv. Postoperative Phase
- xxv. Care of the Patient in the Post-anaesthesia Care Unit

6 : Care of Patients with Respiratory Disorders

- xxvi. Anatomic Overview
- xxvii. Assessment
- xxviii. Diagnostic Evaluation
- xxix. Management of Patients With Upper Respiratory Tract Disorder
- xxx. Management of Patients With Chest and Lower Respiratory Tract Disorders
- xxxi. Management of Patients With Chronic Pulmonary Disease
- xxxii. Respiratory Care Modalities

7 : Care of Patients with Cardiovascular and Circulatory Disorders

- xxxiii. Assessment of Cardiovascular functions
- xxxiv. Anatomic and Physiologic Overview
- xxxv. Assessment of the Cardiovascular System
- xxxvi. Management of Patients with Dysrhythmias and Conduction Problems
- xxxvii. Management of Patients With Coronary Vascular Disorders
- xxxviii. Management of Patients With Structural, infectious and Inflammatory Cardiac Disorders
- xxxix. Management of Patients With Complications From Heart Disease
- xl. Assessment and Management of patients With Vascular Disorders and Problems of Peripheral Circulation
- xli. Assessment and Management of Patients With Hypertension

8: Care of Patients with Haematologic Disorders

- xlii. Anaemias
- xliii. Polycythaemia
- xliv. Neutropenia
- xlv. Lymphopenia
- xlvi. Leukaemia
- xlvii. Lymphomas
- xlviii. Haemophilia
- xlix. Thrombocytopenia
- l. Von Willebrand' Disease

