

UNIT IV: NURSING CARE OF THE PATIENT WITH DISTURBANCES OF THE IMMUNOLOGICAL SYSTEM

UNIT OBJECTIVES

AT THE COMPLETION OF THE UNIT, THE STUDENT:

1. Discusses the difference between normal immune response and altered immune response.
2. Identifies the four types of hypersensitivity reactions.
3. Discusses assessments, diagnostic tests and pharmacological treatment related to patients with allergies.
4. Discusses contributing factors and the role of the nurse in managing an anaphylactic reaction.
5. Identifies contributing factors and the role of the nurse in managing a latex allergy.
6. Describes the transmission, pathophysiology, clinical manifestations, diagnostic studies, and complications of a patient with HIV/AIDS.
7. Describes interprofessional and nursing care related to a patient with HIV/AIDS, including the nurse's role in prevention.
8. Identifies and discusses social determinants of health related to HIV/AIDS.
9. Describes risk factors for various cancer diagnoses.
10. Describes the epidemiologic factors related to cancer and the major etiological theories of cancer development.
11. Differentiates between benign and malignant tumor and describes the process of metastasis.
12. Describes the role of the immune system in cancer prevention.
13. Discusses the classifications of cancer.
14. Discusses the nurse's responsibility related to prevention and detection of cancer.
15. Identifies diagnostic tests and labs indicated in diagnosis of cancer.
16. Identifies the three different goals of cancer treatment: cure, control, palliation.
17. Discusses the emerging trend of personalized cancer treatment.
18. Discusses the role of surgery as a cancer treatment modality.
19. Describes the role of chemotherapy and the nurse's role in administration and managing side effects.
20. Describes the role of radiation therapy and the nurse's role in managing side effects.
21. Identifies the role of immunotherapy and targeted therapy in cancer treatment.
22. Identifies the role of hematopoietic stem cell transplantation in cancer treatment.
23. Discusses the complications of cancer, including cachexia, pain, and infection.
24. Identifies the manifestations and treatment of common oncologic emergencies.
25. Discusses the physical and psychological impact of coping with cancer on the patient and their significant others.
26. Identifies the nurse's role in caring for cancer survivors.
27. Identifies and discusses social determinants of health related to cancer.
28. Teaches patients about their cancer and the side effects from treatment.
29. Relates knowledge of community resources available to assist patients with cancer diagnoses.
30. Identifies evidence-based practice/best practice standards related to nursing care for patients with disorders of the immunological system.

| CONTENT/ HOURS | TEACHING STRATEGIES | SUPPORTING ACTIVITIES | EVALUATION METHODS |
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| <p>Unit IV: Disturbances of the Immunological System Theory hours - 11</p> <p>I. Allergies</p> <ul style="list-style-type: none"> a. Normal Immune Response <ul style="list-style-type: none"> i. Types of Immunity <ul style="list-style-type: none"> 1. Innate Immunity 2. Acquired Immunity ii. Cells Involved in Immune Response iii. Humoral vs Cell Mediated Immunity iv. Effects of Aging on the Immune System b. Altered Immune Response <ul style="list-style-type: none"> i. Hypersensitivity Reactions <ul style="list-style-type: none"> 1. Type I: IgE-Mediated Reaction 2. Type II: Cytotoxic and Cytolytic Reactions 3. Type III: Immune-Complex Reactions 4. Type IV: Delayed Hypersensitivity Reactions c. Allergic Disorders <ul style="list-style-type: none"> i. Assessment ii. Diagnostic Studies <ul style="list-style-type: none"> 1. Labs 2. Skin Tests iii. Interprofessional and Nursing Management <ul style="list-style-type: none"> 1. Anaphylaxis 2. Chronic Allergies 3. Latex Allergies | <p>Interactive Lecture: PowerPoint, Audience Response Questions</p> | <p>Clinical Experience</p> <p>Class Preparation: Immune Response and HIV Review Questions</p> | <p>Clinical, Class Preparation, Quiz, Unit Exam</p> |

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| <p>II. HIV</p> <ul style="list-style-type: none"> a. HIV Transmission b. Pathophysiology c. Clinical Manifestations and Complications <ul style="list-style-type: none"> i. Acute infection ii. Chronic HIV infection iii. AIDS d. Diagnostic Studies <ul style="list-style-type: none"> i. HIV Testing ii. Abnormal blood tests e. Interprofessional Care <ul style="list-style-type: none"> i. Drug Therapy f. Nursing Management <ul style="list-style-type: none"> i. Assessment ii. Planning iii. Implementation g. Delaying Disease Progression h. Prevention <p>III. Cancer</p> <ul style="list-style-type: none"> a. Introduction b. Biology of Cancer <ul style="list-style-type: none"> i. Defective Cell Proliferation ii. Defective Cellular Differentiation iii. Process of Cancer Development <ol style="list-style-type: none"> 1. Initiation 2. Promotion 3. Progression iv. Pathogenesis of Cancer Metastases v. Role of Immune System vi. Classification of Cancer <ol style="list-style-type: none"> 1. Anatomic Site 2. Histologic Classification 3. Staging | <p>Interactive Learning: PowerPoint</p> <p>Cooperative Learning: Case Study</p> <p>Guest Speaker: C. Dugan, Christiana Care Wellness Center</p> <p>Interactive Learning: PowerPoint, Audience Response Questions</p> <p>Cooperative Learning: Unfolding Oncology Case Studies</p> | <p>Clinical Experience</p> <p>Class Preparation: American Cancer Society Cancer Screening Recommendations</p> | <p>Clinical, Class Preparation, Quiz, Unit Exam</p> <p>Unit Exam Quiz Class Prep Clinical Evaluation</p> |

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| <ul style="list-style-type: none"> c. Prevention and Detection of Cancer <ul style="list-style-type: none"> i. Diagnosis of Cancer <ul style="list-style-type: none"> 1. Diagnostic Studies d. Interprofessional Care <ul style="list-style-type: none"> i. Treatment Goals ii. Personalized Cancer Medicine iii. Surgical Therapy iv. Chemotherapy <ul style="list-style-type: none"> 1. Effect on Cells 2. Classification of Chemotherapy 3. Methods of Administration v. Radiation Therapy <ul style="list-style-type: none"> 1. External Radiation 2. Internal Radiation e. Nursing Management of Chemotherapy and Radiation Therapy <ul style="list-style-type: none"> i. Common Side Effects ii. Late Effects of Radiation and Chemotherapy f. Immunotherapy and Targeted Therapy <ul style="list-style-type: none"> i. Side Effects ii. Hormone Therapy iii. Hematopoietic Growth Factors iv. Hematopoietic Stem Cell Transplantation g. Complications of Cancer <ul style="list-style-type: none"> i. Nutrition ii. Infection iii. Pain iv. Oncologic Emergencies | | | |

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| <ul style="list-style-type: none"> 1. Obstructive 2. Metabolic 3. Infiltrative h. Coping with Cancer <ul style="list-style-type: none"> i. Nursing Assessment and Support ii. Gerontological Considerations i. Cancer Survivorship j. Social Determinants of Health: Cancer | | | |