

Course No. & Title: HIM 291 Advanced Medical Terminology

Instructor:

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Credit Hours:

2 semester hours

Prerequisites:

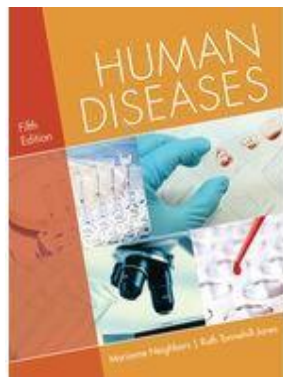
AH/HIM 290 or consent of instructor

Description:

This course is designed to develop an in-depth knowledge of medical terminology as it relates to diseases, operations and treatment modalities.

Required Textbooks:

Neighbors, Marianne and Tannehill-Jones, Ruth. Human Diseases, Delmar Cengage, **5th edition**, 2019
ISBN10: 1-337-39679-6 **ISBN13:** 978-1-337-39679-0



Suggested Reference:

Taber's Cyclopedic Medical Dictionary, current edition, FA Davis Company.

(Please note: While other medical dictionaries-both print and online-may be used, the Taber's dictionary includes a CD with pronunciation of 30,000 medical terms.)

Assignments:

Assignments must be completed for each chapter and submitted through Blackboard.

Examinations:

Two examinations (midterm exam and final exam) will be administered through Blackboard. One hour and 30 minutes (90 total minutes) will be allowed for each exam; points will be deducted should the time frame be exceeded. A study guide for each exam is available through Blackboard.

Evaluation:

The course grade will be determined by the percentage of achieved points accumulated from tests and assignments in relation to possible points. (Extra credit work is not offered in this course, so please do not ask.) The following scale will be used:

Percentage	Grade
90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
59% and below	F

Instructional Methods:

1. Chapters will be assigned for review from the required textbook.
2. Assignments will include A) completion of chapter worksheets, B) completion of a midterm examination and C) completion of a final examination.

Access to chapter worksheets is unlimited, but each assignment can only be submitted one time.

Exams may be accessed only once and must be completed and submitted at that time; multiple attempts on exams are not allowed.

Due Dates:

While this is a self-paced course and you may submit assignments/examinations at your convenience, there will be TWO mandatory due dates. Please refer to the schedule below and the course site on Blackboard for additional information.

Competencies:

At the conclusion of this course, the student should be able to:

1. Develop an appreciation of medical terminology and use it comfortably in reading and comprehending health documents.
2. Expand knowledge base of medical terms and pathological conditions.
3. Recognize misspelled and misused terms.
4. Apply knowledge in completing exercises.

5. Develop skills to research medical terms/conditions using credible web-based resources.

Title IX Sexual Misconduct/Assault:

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf. Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's [Counseling and Testing Center](#) at 270-745-3159.

Accessibility Accommodations:

In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Accessibility Services in DSU-1074 of the Student Success Center in Downing University Center. The OFSDS telephone number is (270) 745-5004 V/TDD.

Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Accessibility Services.

Once accessibility services/accommodations have been granted and initiated, please contact me with any questions or concerns. Also, if you believe that you are not receiving the disability services to which you are entitled, please address this concern with me immediately so discussion and/or adjustments can occur.

Food Security: Food insecurity is defined as a condition where persons, in this case students, do not have adequate resources to feed themselves, either nutritiously or not at all (USDA, 2013). According to a recent national study (Hunger on Campus, 2016), food insecurity is common at colleges and universities across the country, potentially undermining the educational success of untold thousands of students. If food insecurity is an issue you, or someone you know, help is readily available. Contact the [WKU Office of Sustainability](#) at (270) 745-2508 or email sustainability@wku.edu.

Emotional Support: WKU offers confidential counseling for students at the WKU Counseling Center. The best way to schedule an appointment is to visit their office in Potter Hall, Room 409 or by calling their office at 270-745-3159. They are open Monday - Friday from 8:00am - 4:30pm. For emergency and after-hours information, call 270-745-3159

Syllabus Changes:

Class and exam schedules are subject to change.

Disclaimer:

References to external websites are provided for the convenience of the student. These sites may contain articles on politically and socially controversial topics and are presented from the perspective of providing information. The instructor is not responsible for the content of these external sites and does not necessarily endorse the views or agree with the information held on these sites; the instructor does not take moral stances on issues.

Rev 1/2022

HIM 291 Recommended Schedule (All work due by noon). Note the two mandatory deadlines for work through mid-term and work through final.

Week	Topic	Assignment
Week 1	Chapter 1- Introduction to Human Diseases Chapter 2- Mechanisms of Disease	Read Chapter 1-Introduction to Human Disease Complete Chapter 1 Worksheet Read Chapter 2-Mechanisms of Disease Complete Chapter 2 Worksheet
Week 2	Chapter 3- Neoplasms Chapter 4- Inflammation and Infection	Read Chapter 3-Neoplasms Complete Chapter 3 Worksheet Read Chapter 4-Inflammation and Infection Complete Chapter 4 Worksheet
Week 3	Chapter 5- Immune Systems Diseases and Disorders	Read Chapter 5-Immune System Diseases and Disorders Complete Chapter 5 Worksheet
Week 4	Chapter 6-Musculoskeletal System Diseases and Disorders	Read Chapter 6-Musculoskeletal System Diseases and Disorders Complete Chapter 6 Worksheet
Week 5	Chapter 7-Blood and Blood-Forming Organs Diseases and Disorders Chapter 8-Cardiovascular System Diseases and Disorders	Read Chapter 7-Blood and Blood-Forming Organs Diseases and Disorders Complete Chapter 7 Worksheet Read Chapter 8-Cardiovascular System Diseases and Disorders Complete Chapter 8 Worksheet
Week 6	Chapter 9-Respiratory System Diseases and Disorder Chapter 10-Lymphatic System Diseases and Disorders	Read Chapter 9-Respiratory System Diseases and Disorders Complete Chapter 9 Worksheet Read Chapter 10-Lymphatic System Diseases and Disorders Complete Chapter 10 Worksheet
Week 7	Chapter 11-Digestive System Diseases and Disorders	Read Chapter 11-Digestive System Diseases and Disorders Complete Chapter 11 Worksheet
Week 8	Midterm	Review Midterm Examination Study Guide (located in "Course Documents" link) Complete all work for Chapters 1-11 and Midterm Examination by 12:00 NOON (NOT midnight) on Friday, March 11, 2022. NO EXCEPTIONS WILL BE MADE TO THIS DEADLINE.

Week	Topic	Assignment
Week 9	Chapter 12-Liver, Gallbladder and Pancreatic Diseases and Disorders Chapter 13-Urinary System Diseases and Disorders	Read Chapter 12-Liver, Gallbladder and Pancreatic Diseases and Disorders Complete Chapter 12 Worksheet Read Chapter 13-Urinary System Diseases and Disorders Complete Chapter 13 Worksheet
Week 10	Chapter 14-Endocrine System Diseases and Disorders Chapter 15-Nervous System Diseases and Disorders	Read Chapter 14-Endocrine System Diseases and Disorders Complete Chapter 14 Worksheet Read Chapter 15-Nervous System Diseases and Disorders Complete Chapter 15 Worksheet
Week 11	Chapter 16-Eye and Ear Diseases and Disorders Chapter 17-Reproductive System Diseases and Disorders	Read Chapter 16-Eye and Ear Diseases and Disorders Complete Chapter 16 Worksheet Read Chapter 17-Reproductive System Diseases and Disorders Complete Chapter 17 Worksheet
Week 12	Chapter 18-Integumentary System Diseases and Disorders Chapter 19-Genetic and Developmental Diseases and Disorders	Read Chapter 18-Integumentary System Diseases and Disorders Complete Chapter 18 Worksheet Read Chapter 19-Genetic and Developmental Diseases and Disorders Complete Chapter 19 Worksheet
Week 13	Chapter 20-Childhood Diseases and Disorders Chapter 21-Mental Health Diseases and Disorders	Read Chapter 20-Childhood Diseases and Disorders Complete Chapter 20 Worksheet Read Chapter 21-Mental Health Diseases and Disorders Complete Chapter 21 Worksheet

Week	Topic	Assignment
Week 14	Surgical Terminology Material	<p>Read surgical terminology material (located in "Assignments" link)</p> <ul style="list-style-type: none"> • surgical terms • ICD root operation terminology • surgical position illustrations • suturing technique illustrations <p>Complete Surgical Terminology Worksheet</p> <p>Review Final Examination Study Guide (located in "Course Documents" link)</p>
Week 15		<p>All work 12-21, Surgical Terminology Worksheet, and Final Examination must be completed by 12:00 NOON (NOT midnight) on Tuesday, April 26, 2022. NO EXCEPTIONS WILL BE MADE TO THIS DEADLINE.</p>

Curricular Components:

At the conclusion of this course, the student should be able to meet the following 2018 CAHIIM Baccalaureate Degree Curricular Components at the indicated level:

Supporting Body of Knowledge Biomedical Sciences	Activity
Medical Terminology	Module Worksheets
Pathophysiology	Analyze Medical Reports to Identify ICD 10 Root Operations (Surgical Terminology Worksheet)

Course Content

Unit I-Concepts of Human Disease

- I. Introduction to Human Diseases
 - A. Disease, disorder and syndrome
 1. disease
 2. disorder
 3. syndrome
 - B. Pathology
 - C. Pathogenesis
 - D. Etiology
 - E. Predisposing factors
 1. age
 2. sex
 3. environment
 4. lifestyle
 5. heredity
 - F. Diagnosis
 - G. Prognosis
 1. acute disease
 2. chronic disease
 3. complication
 4. mortality rate
 5. survival rate
 - H. Treatment
 - I. Medical Ethics
- II. Mechanisms of Disease
 - A. Causes of disease
 1. heredity

- 2. trauma
- 3. inflammation and infection
- 4. hyperplasias and neoplasms
 - a. hyperplasias
 - b. neoplasms
- 5. nutritional imbalance
 - a. malnutrition
 - b. obesity
 - c. vitamin and mineral excess or deficiency
- 6. impaired immunity
 - a. allergy
 - b. autoimmunity
 - c. immunodeficiency
- B. Aging
- C. Death
 - 1. cellular injury
 - 2. cellular adaptation
 - a. atrophy
 - b. hypertrophy
 - c. hyperplasia
 - d. dysplasia
 - e. metaplasia
 - f. neoplasia
 - 3. cell and tissue death
 - 4. organism death

III. Neoplasms

- A. Terminology related to neoplasms
- B. Classification of neoplasms
 - 1. appearance and growth
 - 2. tissue of origin
- C. Growth of benign and malignant neoplasms
 - 1. benign neoplasm growth
 - 2. malignant neoplasm growth
- D. Hyperplasias and neoplasms
 - 1. hyperplasias
 - 2. neoplasms
- E. Development of malignant neoplasms (cancer)
- F. Invasion and metastasis of cancer
 - 1. lymphatic system metastasis
 - 2. bloodstream metastasis
 - 3. cavity metastasis
- G. Grading and staging of cancer

1. grading

2. staging

H. Causes of cancer

1. chemical carcinogens

2. hormones

3. radiation

4. viruses

5. genetic predisposition

6. personal risk behaviors

I. Cancer prevention

J. Frequency of cancer

K. Diagnosis of cancer

L. Signs and symptoms of cancer

1. pain

2. obstruction

3. hemorrhage

4. anemia

5. fractures

6. infection

7. cachexia

M. Cancer treatment

1. surgery

2. chemotherapy

3. radiation

4. hormone therapy

IV. Inflammation and Infection

A. Defense mechanisms

1. physical or surface barriers (nonspecific)

2. inflammation (nonspecific)

3. immune response (nonspecific)

B. Inflammation

1. the inflammatory process

2. chronic inflammation

3. inflammatory exudates

4. inflammatory lesions

C. Tissue repair and healing

1. tissue repair

2. tissue healing

3. delayed wound healing

4. complications of wound healing

D. Infection

1. frequency and types of infection

2. testing for infection

Unit II-Common Diseases and Disorders of the Human Body

V. Immune System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the Immune System
 - 1. hypersensitivity disorders
 - a. allergies
 - b. autoimmune disorders
 - c. isoimmune disorders
 - d. immune deficiency disorders
- E. Trauma
- F. Rare diseases
 - 1. severe combined immunodeficiency disease (SCID)
- G. Effects of Aging on the Immune System

VI. Musculoskeletal System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the musculoskeletal system
 - 1. diseases of the bone
 - 2. diseases of the joints
 - 3. diseases of the muscles and connective tissue
 - 4. neoplasms
- E. Trauma
 - 1. fracture
 - 2. strains and sprains
 - 3. dislocations and subluxations
 - 4. low back pain (LBP)
 - 5. herniated nucleus pulposus (HNP)
 - 6. bursitis
 - 7. tendonitis
 - 8. carpal tunnel syndrome
 - 9. plantar fasciitis
 - 10. torn rotator cuff
 - 11. torn meniscus
 - 12. cruciate ligament tears
 - 13. shin splints
- F. Rare diseases

1. de Quervain's disease
 2. tuberculosis of the bone
 3. Paget's disease
 4. myasthesia gravis
- G. Effects of aging on the system

VII. Blood and Blood-Forming Organs Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the blood and blood-forming organs
 1. disorders of red blood cells
 2. disorders of white blood cells
 3. disorders of platelets
- E. Trauma
- F. Rare diseases
 1. thalassemia
 2. von Willebrand's disease
 3. lymphosarcoma
- G. Effects of aging on the system

VIII. Cardiovascular System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the cardiovascular system
 1. diseases of the arteries
 2. diseases of the heart
 3. diseases of the veins
- E. Trauma
 1. hemorrhage
 2. shock
- F. Rare diseases
 1. malignant hypertension
 2. cor pulmonale
 3. Raynaud disease
 4. Buerger disease
 5. polyarteritis nodosa
- G. Effects of aging on the system

IX. Respiratory System Diseases and Disorders

- A. Anatomy and physiology

- B. Common signs and symptoms
 - C. Diagnostic tests
 - D. Common diseases of the respiratory system
 - 1. diseases of the upper respiratory tract
 - 2. diseases of the bronchi and lungs
 - 3. diseases of the pleura and chest
 - 4. diseases of the cardiovascular and respiratory systems
 - E. Trauma
 - 1. pneumothorax and hemothorax
 - 2. suffocation
 - F. Rare diseases
 - 1. pneumoconiosis
 - 2. fungal diseases
 - 3. Legionnaires' disease
 - G. Effects of aging on the system
- X. Lymphatic System Diseases and Disorders
- A. Anatomy and physiology
 - B. Common signs and symptoms
 - C. Diagnostic tests
 - D. Common diseases of the lymphatic system
 - 1. lymphadenitis
 - 2. lymphangitis
 - 3. lymphedema
 - 4. lymphoma
 - 5. mononucleosis
 - E. Rare diseases
 - 1. Kawasaki disease
 - F. Effects of aging on the system
- XI. Digestive System Diseases and Disorders
- A. Anatomy and physiology
 - B. Common signs and symptoms
 - C. Diagnostic tests
 - D. Common diseases of the digestive system
 - 1. diseases of the mouth
 - 2. diseases of the throat and esophagus
 - 3. diseases of the stomach
 - 4. diseases of the small intestine
 - 5. diseases of the colon
 - 6. diseases of the rectum
 - E. Trauma

1. trauma to the mouth
 2. trauma to the stomach and intestines
- F. Rare diseases
1. achalasia
 2. gluten-induced enteropathy
 3. intestinal polyps
- G. Effects of aging on the system

XII. Liver, Gallbladder and Pancreatic Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the accessory organs of digestion
1. liver diseases
 2. gallbladder diseases
 3. pancreatic diseases
- E. Rare diseases
1. primary biliary cirrhosis
 2. Gilbert's syndrome
 3. hemochromatosis
- F. Effects of aging on the system

XIII. Urinary System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the urinary system
1. urinary tract infection (UTI)
 2. diseases of the kidney
 3. diseases of the bladder
- E. Trauma
1. straddle injuries
 2. neurogenic bladder
- F. Rare diseases
1. Goodpasture syndrome
 2. interstitial cystitis
- G. Effects of aging on the system

XIV. Endocrine System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms

- C. Diagnostic tests
- D. Common diseases of the endocrine system
 - 1. pituitary gland diseases
 - 2. thyroid gland diseases
 - 3. parathyroid gland disorders
 - 4. adrenal gland diseases
 - 5. pancreatic islets of Langerhans disease
 - 6. reproductive gland diseases
- E. Trauma
- F. Rare diseases
- G. Effects of aging on the system

XV. Nervous System Diseases and Disorders

- A. Anatomy and physiology
 - 1. central nervous system
 - 2. peripheral nervous system
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the lymphatic system
 - 1. infectious diseases
 - 2. vascular disorders
 - 3. functional disorders
 - 4. dementias
 - 5. sleep disorders
 - 6. tumors
- E. Trauma
 - 1. concussions and contusions
 - 2. skull fractures
 - 3. epidural and subdural hematomas
 - 4. spinal cord injury: quadriplegia and paraplegia
- F. Rare diseases
 - 1. amyotrophic lateral sclerosis
 - 2. Gullain-Barre syndrome
 - 3. Huntington's chorea
 - 4. multiple sclerosis
- G. Effects of aging on the system

XVI. Eye and Ear Diseases and Disorders

- A. Anatomy and physiology
 - 1. Eye
 - 2. Ear
- B. Common signs and symptoms

- C. Diagnostic tests
 - 1. Diagnostic tests of the eye
 - 2. Diagnostic tests of the ear
- D. Common diseases of the eye
 - 1. refractive errors
 - 2. inflammation and infection
 - 3. cataract
 - 4. glaucoma
 - 5. nystagmus
 - 6. macular degeneration
 - 7. diabetic retinopathy
 - 8. color blindness or color deficiency (CVD)
 - 9. strabismus
- E. Common diseases of the ear
 - 1. infection
 - 2. motion sickness
 - 3. deafness
- F. Trauma
 - 1. corneal abrasion
 - 2. retinal detachment
 - 3. ruptured tympanic membrane
- G. Rare diseases
 - 1. retinoblastoma
 - 2. Ménière's Disease
- H. Effects of aging on the system

XVII. Reproductive System Diseases and Disorders

- A. Anatomy and physiology
 - 1. female anatomy and physiology
 - 2. male anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the reproductive system
 - 1. female reproductive system diseases
 - 2. diseases of the breast
 - 3. disorders of pregnancy
 - 4. male reproductive system diseases
 - 5. sexually transmitted diseases (STD)
 - 6. sexual dysfunction
- E. Trauma
 - 1. rape
- F. Rare diseases
 - 1. vaginal cancer

- 2. puerperal sepsis
- 3. hydatidiform mole
- G. Effects of aging on the system

XVIII. Integumentary System Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common diseases of the integumentary system
 - 1. infectious diseases
 - 2. metabolic diseases
 - 3. hypersensitivity or immune diseases
 - 4. 4 idiopathic diseases
 - 5. benign tumors
 - 6. pre-malignant and malignant tumors
 - 7. abnormal pigmented lesions
 - 8. diseases of the nails
 - 9. diseases of the hair
- E. Trauma
 - 1. mechanical skin injury
 - 2. thermal skin injury
 - 3. 3 electrical skin injury
 - 4. radiation skin injury
 - 5. pressure injury
 - 6. insect and spider bites and stings
- F. Rare diseases
 - 1. elephantiasis
- G. Effects of aging on the system

UNIT III-Genetic and Developmental, Childhood and Mental Health Diseases and Disorders

XIX. Genetic and Developmental Diseases and Disorders

- A. Anatomy and physiology
- B. Common signs and symptoms
- C. Diagnostic tests
- D. Common genetic and developmental disorders
 - 1. musculoskeletal
 - 2. neurologic
 - 3. cardiovascular
 - 4. blood
 - 5. digestive

6. urinary
7. reproductive
8. other developmental disorders
9. multisystem diseases and disorders

E. Trauma

1. failure to thrive
2. fetal alcohol syndrome
3. congenital rubella syndrome

F. Rare diseases

1. anencephaly
2. achondroplasia
3. Tay-Sachs disease

XX. Childhood Diseases and Disorders

A. Infectious diseases

1. viral diseases
2. bacterial diseases
3. fungal diseases
4. parasitic diseases

B. Respiratory diseases

1. sudden infant death syndrome (SIDS)
2. croup
3. adenoid hyperplasia
4. asthma
5. pneumonia

C. Digestive diseases

1. fluid imbalances
2. food allergies
3. eating disorders

D. Cardiovascular diseases

E. Musculoskeletal diseases

1. Legg-Calve Perthes
2. Ewing sarcoma

F. Blood diseases

1. leukemia

G. Neurologic diseases

1. Reye syndrome

H. Eye and ear diseases

1. strabismus
2. deafness

I. Trauma

1. child abuse
2. suicide

3. drug abuse
4. poisoning

XXI. Mental Health Diseases and Disorders

- A. Common signs and symptoms
- B. Diagnostic tests
- C. Common mental health disorders
 1. developmental mental health disorders
 2. substance-related mental disorders
 3. organic mental disorders
 4. psychosis
 5. mood or affective disorders
 6. dissociative disorders
 7. anxiety disorders
 8. somatoform disorders
 9. personality disorders
 10. gender identity disorder
 11. sexual disorders
 12. sleep disorders
- D. Trauma
 1. grief
 2. suicide
- E. Rare diseases
- F. Mental health disorders in the older adult

XXII. Surgical Terminology

- A. introduction
- B. operative report
 1. preoperative diagnosis
 2. postoperative diagnosis
 3. name of operation
 4. indications
 5. findings and techniques
 - a. type of anesthesia
 - b. method of induction
 - c. anesthetics
 - d. surgical positions
 - e. incisions
 - f. surgical instruments
 - g. suturing methods
 - h. suture materials
 - i. drains/tubes

- j. conclusion
- C. root operations terminology
- D. medical documentation and root operations

6/2017

Course Objectives

Unit I-Concepts of Human Disease

- I. Introduction to Human Diseases
 - A. Define basic terminology used in the study of human diseases
 - B. Discuss the pathogenesis of disease
 - C. Describe the Standard Precaution guidelines for disease prevention
 - D. Identify the predisposing factors to human diseases
 - E. Explain the difference between diagnosis and prognosis of a disease
 - F. Describe some common tests used to diagnose disease states
- II. Mechanisms of Disease
 - A. Identify important terminology related to the mechanisms of human disease
 - B. Describe the causes of disease
 - C. Identify disorders in each category in the causes of disease
 - D. Describe behaviors important to a healthy lifestyle
 - E. Compare the various types of impaired immunity
 - F. Identify the basic changes in the body occurring in the aging process
 - G. Describe the process of cell and tissue injury, adaptation and death
- III. Neoplasms
 - A. Define basic terminology used in the study of neoplasms
 - B. Explain the system used to classify neoplasms
 - C. Compare hyperplasias to neoplasms
 - D. Identify the progression of cancer development
 - E. State the signs and symptoms of cancer
 - F. Identify some common carcinogenic substances
 - G. Identify high-risk behaviors for cancer development
 - H. State the frequency of cancer development in the population
 - I. Describe the curative, palliative, and preventive methods used in cancer treatment

IV. Inflammation and Infection

- A. Identify important terminology related to the defense mechanisms
- B. Describe the basic defense mechanisms in the body
- C. Explain the steps in the inflammatory process
- D. Describe the process of tissue repair and healing
- E. Identify complications of wound healing
- F. Describe the process of infection development
- G. Identify the common infectious microorganisms and the resulting diseases
- H. Identify the common laboratory test conducted to identify pathogenic organisms

UNIT II-Common Diseases and Disorders of Body Systems

V. Immune System Diseases and Disorders

- A. Define the terminology common to the immune system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the immune system
- C. Identify the important signs and symptoms associated with common immune system disorders
- D. Describe the common diagnostics used to determine type, cause, or both of an immune system disorder
- E. Identify disorders of the immune system
- F. Describe the typical course and management of common immune systems disorders
- G. Describe the effects of aging on the immune system and the common disorders of the system associated with aging

VI. Musculoskeletal System Diseases and Disorders

- A. Define the terminology common to the musculoskeletal system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the musculoskeletal system disorders
- C. Identify the important signs and symptoms associated with common musculoskeletal system disorders
- D. Describe the common diagnostics used to determine type, cause or both of a musculoskeletal system disorder
- E. Identify the common disorders of the musculoskeletal system
- F. Describe the typical course and management of the common musculoskeletal disorders
- G. Describe the effects of aging on the musculoskeletal system and the common disorders associated with aging of the system

VII. Blood and Blood-Forming Organs Diseases and Disorders

- A. Define the terminology common to the blood and blood forming organs and the disorders of the blood and blood-forming organs
- B. Discuss the basic anatomy and physiology of the blood and blood forming organs
- C. Identify the important signs and symptoms associated with common blood and blood forming organ disorders
- D. Describe the common diagnostics used to determine the type and cause of blood and blood forming organ disorders
- E. Identify the common disorders of the blood and blood forming organs
- F. Describe the typical course and management of the common blood and blood forming organ disorders
- G. Describe the effects of aging on the blood and blood forming organs and the common disorders associated with aging of the system

VIII. Cardiovascular System Diseases and Disorders

- A. Define the terminology common to the cardiovascular system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the cardiovascular system
- C. Identify the important signs and symptoms associated with common cardiovascular disorders
- D. Describe the common diagnostics used to determine the type and cause of the cardiovascular system disorders
- E. Identify the common disorders of the cardiovascular system
- F. Describe the typical course and management of the common cardiovascular system disorders
- G. Describe the effects of aging on the cardiovascular system and the common disorders associated with aging of the system

IX. Respiratory System Diseases and Disorders

- A. Define the terminology common to the respiratory system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the respiratory system
- C. Identify the important signs and symptoms associated with common respiratory disorders
- D. Describe the common diagnostics used to determine the type and cause of the respiratory system disorders
- E. Identify the common disorders of the respiratory system
- F. Describe the typical course and management of the common respiratory system disorders
- G. Describe the effects of aging on the respiratory system and the common disorders associated with aging of the system

X. Lymphatic System Diseases and Disorders

- A. Define the terminology common to the lymphatic system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the lymphatic system
- C. Identify the important signs and symptoms associated with common lymphatic disorders
- D. Describe the common diagnostics used to determine the type and cause of the lymphatic system disorders
- E. Identify the common disorders of the lymphatic system
- F. Describe the typical course and management of the common lymphatic system disorders
- G. Describe the effects of aging on the lymphatic system and the common disorders associated with aging of the system

XI. Digestive Diseases and Disorders

- A. Define the terminology common to the digestive system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the digestive system
- C. Identify the important signs and symptoms associated with common digestive disorders
- D. Describe the common diagnostics used to determine the type and cause of the digestive system disorders
- E. Identify the common disorders of the digestive system
- F. Describe the typical course and management of the common digestive system disorders
- G. Describe the effects of aging on the digestive system and the common disorders associated with aging of the system

XII. Liver, Gallbladder, and Pancreatic Diseases and Disorders

- A. Define the terminology common to the liver, gallbladder, and pancreas and the disorders of the system
- B. Discuss the basic anatomy and physiology of the liver, gallbladder, and pancreas
- C. Identify the important signs and symptoms associated with common liver, gallbladder, and pancreas disorders
- D. Describe the common diagnostics used to determine the type and cause of the liver, gallbladder, and pancreas disorders
- E. Identify the common disorders of the liver, gallbladder, and pancreas
- F. Describe the typical course and management of the common liver, gallbladder, and pancreas disorders
- G. Describe the effects of aging on the liver, gallbladder, and pancreas and the common disorders associated with aging of the system

XIII. Urinary System Diseases and Disorders

- A. Define the terminology common to the urinary system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the urinary system
- C. Identify the important signs and symptoms associated with common urinary disorders
- D. Describe the common diagnostics used to determine type and cause of the urinary system disorders
- E. Identify the common disorders of the urinary system
- F. Describe the typical course and management of the common urinary system disorders
- G. Describe the effects of aging on the urinary system and the common disorders associated with aging of the system

XIV. Endocrine System Diseases and Disorders

- H. Define the terminology common to the endocrine system and the disorders of the system
- I. Discuss the basic anatomy and physiology of the endocrine system
- J. Identify the important signs and symptoms associated with common endocrine disorders
- K. Describe the common diagnostics used to determine type and cause of the endocrine system disorders
- L. Identify the common disorders of the endocrine system
- M. Describe the typical course and management of the common endocrine system disorders
- N. Describe the effects of aging on the endocrine system and the common disorders associated with aging of the system

XIV. Nervous System Diseases and Disorders

- A. Define the terminology common to the nervous system and the disorders of the system
- B. Discuss the basic anatomy and physiology of the nervous system
- C. Identify the important signs and symptoms associated with common nervous disorders
- D. Describe the common diagnostics used to determine type and cause of the nervous system disorders
- E. Identify the common disorders of the nervous system
- F. Describe the typical course and management of the common nervous system disorders
- G. Describe the effects of aging on the nervous system and the common disorders associated with aging of the system

XV. Eye and Ear Diseases and Disorders

- A. Define the terminology common to the eye and ear

- B. Discuss the basic anatomy and physiology of the eye and ear
 - C. Identify the important signs and symptoms associated with common eye and ear disorders
 - D. Describe the common diagnostics used to determine type and cause of eye and ear disorders
 - E. Identify the common disorders of the eye and ear
 - F. Describe the typical course and management of the common eye and ear disorders
 - G. Describe the effects of aging on the eye and ear and the common disorders associated with aging of these organs
- XVI. Reproductive System Diseases and Disorders
- A. Define the terminology common to the reproductive system and the disorders of the system
 - B. Discuss the basic anatomy and physiology of the reproductive system
 - C. Identify the important signs and symptoms associated with common reproductive disorders
 - D. Describe the common diagnostics used to determine type and cause of the reproductive system disorders
 - E. Identify the common disorders of the reproductive system
 - F. Describe the typical course and management of the common reproductive system disorders
 - G. Describe the effects of aging on the reproductive system and the common disorders associated with aging of the system
- XVII. Integumentary System Diseases and Disorders
- A. Define the terminology common to the integumentary system and the disorders of the system
 - B. Discuss the basic anatomy and physiology of the integumentary system
 - C. Identify the important signs and symptoms associated with common integumentary disorders
 - D. Describe the common diagnostics used to determine type and cause of the integumentary system disorders
 - E. Identify the common disorders of the integumentary system
 - F. Describe the typical course and management of the common integumentary system disorders
 - G. Describe the effects of aging on the integumentary system and the common disorders associated with aging of the system

UNIT III-Genetic and Developmental, Childhood and Mental Health Disorders

- XVIII. Genetic and Development Diseases and Disorders

- A. Define the terminology common to genetic and developmental disorders
 - B. Identify the important signs and symptoms associated with genetic and developmental disorders
 - C. Describe the common diagnostics used to determine the type and cause of genetic or developmental disorders
 - D. Identify the common genetic and developmental disorders
 - E. Describe the typical course and management of the common genetic and developmental disorders
- XIX. Childhood Diseases and Disorders
- A. Define the terminology common to childhood diseases
 - B. Identify the important signs and symptoms associated with childhood diseases
 - C. Describe the common diagnostics used to determine the type and cause of childhood diseases
 - D. Describe the typical course and management of the common childhood diseases
 - E. State the common drugs abused by children, the effects of the drugs, and the
 - F. potential health hazards of drug use
 - G. List the immunizations available to prevent childhood diseases
 - H. Identify the safety precautions for preventing poisonings in children
- XX. Mental Health Diseases and Disorders
- A. Define the terminology common to mental health disorders
 - B. Identify the important signs and symptoms associated with mental health disorders
 - C. Describe the common diagnostic tests used to determine the type and/or
 - D. cause of mental health disorders
 - E. Identify common mental health disorders
 - F. Describe the typical course and management of the common mental health disorders
 - G. State the mental health disorders found in the older population and the effects of these disorders
- XXI. Surgical Terminology
- A. Identify the components of an operative report
 - B. Spell and define commonly used anesthesia terminology
 - C. Identify and spell commonly used surgical positions and
 - i. Instruments
 - D. Explain the difference between suture material and suture technique
 - E. Be familiar with terminology used in operative reports
 - F. Demonstrate knowledge of surgical terminology
 - G. Define and identify ICD root operations

H. Read and understand medical documents

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