

**Course No. & Title:** **HIM 291 Advanced Medical Terminology**

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**Credit Hours:** 2 semester hours

**Prerequisites:** AH/HCIS/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, **4<sup>th</sup> edition**, 2015 (published January 2014)

**ISBN-10:** 1285065921; **ISBN-13:** 9781285065922

\*American Health Information Management Association (ahima.org)



**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 15 minutes (75 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:

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 and practical application exercises 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. The Respondus Lockdown browser must be used when completing the exams; additional information may be found on the Blackboard course site.

**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 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. Research medical terms/conditions using web-based resources.

**Curricular  
Components:**

At the conclusion of this course, the student should be able to meet the following 2011 AHIMA\* Associate and Baccalaureate Degree Knowledge Clusters at the indicated taxonomic level:

- Biomedical Sciences
  - Medical Terminology (5) [*Evaluation of Case Studies and Surgical Terms- Analyze medical reports to identify ICD-10 Root Operations*]
  - Pathophysiology (4) [*Worksheets*]

**Disability  
Accommodations:**

Students with disabilities who require accommodation (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability 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 Disability Services.

Once disability 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.

**Contact Information:**

The course instructor may be contacted by e-mail Monday through Friday. Every effort will be made to respond within 24 hours of receiving e-mails, excluding weekends and scheduled University holidays/breaks.

Please check Blackboard and your WKU e-mail account on a weekly basis for any course announcements.

**HIM 291 Advanced Medical Terminology  
Suggested Class Schedule  
Spring 2016**

The following is a suggested schedule for the course. The course is organized by chapter and assignments are available through the "Assignments" link. Assignments include completion of assigned readings from the textbook and completion of a review worksheet for each chapter; material on surgical terminology will also be assigned. There is no set time limit when completing the chapter worksheets; these assignments can be accessed multiple times, but can only be submitted one time.

Two exams (midterm exam and final exam) must be completed and are available through the "Assignments" section. **One hour and 15 minutes (75 minutes)** will be allowed for each exam; each exam will automatically save and submit when the time has expired (please monitor your time accordingly). Exams may only be accessed once and must be completed at that time. A study guide for each exam is available in the "Course Documents" link; it may be helpful to review the study guide and make notes after the completion of each chapter. If you experience any technical difficulties while completing an exam, please notify the course instructor immediately to avoid any penalties.

Please note that while this is a self-paced course and you are allowed to submit assignments/examinations at your convenience, there are two **mandatory due dates**:

**Friday, March 18, 2016**

All worksheets for Chapters 1-11 AND the midterm examination must be completed and submitted by 12:00 noon on **Friday, March 18, 2016. There will be NO exceptions to this deadline.**

**Tuesday, May 10, 2016**

All assignments for Chapters 12-21, the Surgical Terminology material AND the final examination must be completed and submitted by 12:00 noon on **Tuesday, May 10, 2016. There will be NO exceptions to this deadline.**

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**HIM 291 Advanced Medical Terminology  
Suggested Class Schedule**

<b><u>Week</u></b>	<b><u>TOPIC</u></b>	<b><u>ASSIGNMENT</u></b>
Week 1	Chapter 1-Introduction to Human Disease Read Chapter 2-Mechanisms of Disease	Read Chapter and Complete Chapter 1 Worksheet Read Chapter and Complete Chapter 2 Worksheet
Week 2	Chapter 3-Neoplasms Chapter 4-Inflammation and Infection	Read Chapter and Complete Chapter 3 Worksheet Complete Chapter 4 Read Chapter and Worksheet
Week 3	Chapter 5-Immune System Diseases and Disorders	Read Chapter and Complete Chapter 5 Worksheet
Week 4	Chapter 6-Musculoskeletal System Diseases and Disorders	Read Chapter and 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 and Complete Chapter 7 Worksheet Read Chapter and Complete Chapter 8 Worksheet
Week 6	Chapter 9-Respiratory System Diseases and Disorders Chapter 10-Lymphatic System Diseases and Disorders	Read Chapter and Complete Chapter 9 Worksheet Read Chapter and Complete Chapter 10 Worksheet
Week 7	Chapter 11-Digestive System Diseases and Disorders	Read Chapter and Complete Chapter 11 Worksheet
Week 8	Chapter 12-Liver, Gallbladder and Pancreatic Diseases and Disorders Chapter 13-Urinary System Diseases and Disorders	Read Chapter and Complete Chapter 12 Worksheet Complete Chapter 13 Read Chapter and Worksheet <b>Complete Mid-term Examination by 12:00 NOON (NOT midnight) on Frida, March 18, 2016. NO EXCEPTIONS WILL BE MADE TO THIS DEADLINE.</b>

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<b><u>Week</u></b>	<b><u>TOPIC</u></b>	<b><u>ASSIGNMENT</u></b>
Week 9	Chapter 14-Endocrine System Diseases and Disorders Chapter 15-Nervous System Diseases and Disorders	Read Chapter and Complete Chapter 14 Worksheet Read Chapter and Complete Chapter 15 Worksheet
Week 10	Chapter 16-Eye and Ear Diseases and Disorders	Read Chapter and Complete Chapter 16 Worksheet
Week 11	Chapter 18-Integumentary System Diseases and Disorders	Read Chapter and Complete Chapter 18 Worksheet
Week 12	Chapter 19-Genetic and Developmental Diseases and Disorders	Read Chapter and Complete Chapter 19 Worksheet
Week 13	Chapter 20-Childhood Diseases and Disorders Chapter 21-Mental Health Diseases and Disorders	Read Chapter and Complete Chapter 20 Worksheet Read Chapter and Complete Chapter 21 Worksheet
Week 14	Surgical Terminology	Read surgical terminology material (located in "Assignments" link) <ul style="list-style-type: none"> <li>• surgical terms</li> <li>• ICD root operation terminology</li> <li>• surgical position illustrations</li> <li>• suturing technique illustrations</li> </ul>
Week 15		Complete Surgical Terminology Worksheet Review Final Examination Study Guide (located in "Course Documents" link)
<b>TUESDAY OF FINALS WEEK</b>		<b>Complete Final Examination by 12:00 NOON (NOT midnight) on Tuesday, May 10, 2016. NO EXCEPTIONS WILL BE MADE TO THIS DEADLINE.</b>

Rev. 9/2015

**HIM 291: Advanced Medical Terminology**  
**Course Content**

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

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- 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
- D. Growth of benign and malignant neoplasms
  - 1. benign neoplasm growth
  - 2. malignant neoplasm growth
- E. Hyperplasias and neoplasms
  - 1. hyperplasias
  - 2. neoplasms
- F. Development of malignant neoplasms (cancer)
- G. Invasion and metastasis of cancer
  - 1. lymphatic system metastasis
  - 2. bloodstream metastasis
  - 3. cavity metastasis
- H. Grading and staging of cancer
  - 1. grading
  - 2. staging
- I. Causes of cancer
  - 1. chemical carcinogens
  - 2. hormones
  - 3. radiation
  - 4. viruses
  - 5. genetic predisposition
  - 6. personal risk behaviors
- J. Cancer prevention
- K. Frequency of cancer
- L. Diagnosis of cancer
- M. Signs and symptoms of cancer
  - 1. pain
  - 2. obstruction
  - 3. hemorrhage
  - 4. anemia
  - 5. fractures
  - 6. infection
  - 7. cachexia
- N. Cancer treatment
  - 1. surgery
  - 2. chemotherapy



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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

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

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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. myasthenia 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

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- 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

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- E. Trauma
  - 1. trauma to the mouth
  - 2. trauma to the stomach and intestines
- F. Rare diseases
  - 1. achalasia
  - 2. gluten-induce 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

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- 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

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- 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. idiopathic diseases
  - 5. benign tumors

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- 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. 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
- 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

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- 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



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- 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

XXIII. Practical Application of Medical Terminology

- A. medical documentation and root operations

4/2013

**HIM 291: Advanced Medical Terminology  
Course Objectives**

- 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

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- 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

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

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- 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

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- 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

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- 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
- XII. Liver, Gallbladder, and Pancreatic Diseases and Disorders (continued)
  - 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
  - A. Define the terminology common to the endocrine system and the disorders of the system
  - B. Discuss the basic anatomy and physiology of the endocrine system
  - C. Identify the important signs and symptoms associated with common endocrine disorders
  - D. Describe the common diagnostics used to determine type and cause of the endocrine system disorders
  - E. Identify the common disorders of the endocrine system
  - F. Describe the typical course and management of the common endocrine system disorders
  - G. Describe the effects of aging on the endocrine system and the common disorders associated with aging of the system
- XV. 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

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- 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

XVI. 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

XVII. 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

XVIII. 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

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- G. Describe the effects of aging on the integumentary system and the common disorders associated with aging of the system

XIX. 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

XX. 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 potential health hazards of drug use
- F. List the immunizations available to prevent childhood diseases
- G. Identify the safety precautions for preventing poisonings in children

XXI. 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 cause of mental health disorders
- D. Identify common mental health disorders
- E. Describe the typical course and management of the common mental health disorders
- F. State the mental health disorders found in the older population and the effects of these disorders

XXII. 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 Instruments
- D. Explain the difference between suture material and suture technique

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- E. Be familiar with terminology used in operative reports
- F. Demonstrate knowledge of surgical terminology
- G. Define and identify ICD root operations.

XXIII. Practical Application of Medical Terminology

- A. Evaluate health information websites
- B. Read and understand medical documents

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