

Medical Terminology – 3

Disorders and Diseases

The **College Tutor Medical Terminology – Disorders and Diseases** course will provide you with a solid foundation to understand the working language of medicine as it pertains to human disorders and diseases. This is an all-inclusive, comprehensive course suitable for medical students as well as professionals.

Course Objectives

- Learn about human diseases based on a body system approach.
- Learn about types of cancer and neoplasms
- Identify diseases, disorders, and conditions and apply knowledge of diagnosis, prognosis, and treatment.
- Gain an understanding of risk factors and their effect on the human condition.
- Understand how diseases affect specific organs, organ systems, and overall homeostasis.

Course Outline

Introduction to Human Body Structure and Function

Body Organization

Circulatory System

Endocrine System

Gastrointestinal System

Integumentary System

Lymphatic/Immune System

Muscular System

Nervous System

Reproductive System

Respiratory System

Sensory System

Skeletal System

Urinary System



To start learning you must act.

Read our secret-revealing paper on

[Five Steps to Faster Learning.](#)

Topic Outlines

Topic 2 Cancer and Neoplasms

Terms and definitions

Overview of cancer

Risk factors

 Alcohol

 Chemicals and other substances

 Close relatives with certain types of cancer

 Diet

 Diethylstilbestrol

 Hormone replacement therapy

 Ionizing radiation

 Tobacco

 Ultraviolet radiation

Early detection of cancers

Classification of neoplasms

Grading and staging of neoplasms

 TNM staging

Etiology of neoplasms

Diagnosis of neoplasms

Diagnostic tests and procedures

Treatment of neoplasms

 Tumor markers Surgery

 Radiation therapy (XRT)

 Chemotherapy

 Immunotherapy

Topic 3 Circulatory System

Terms and definitions

 Overview of circulatory diseases and disorders

 Forms of disease

 Risk factors

 Prevention

 Treatments

Topic 4 Endocrine System

Terms and definitions
Overview of endocrine disorders and diseases
Factors that affect endocrine function
 Aging Illness Stress
 External factors
 Cycles of hormone releases

Topic 5 Gastrointestinal System

Terms and definitions
Overview of GI diseases and disorders
Common symptoms of GI disorders and diseases
GI functional disorders
 Functional esophageal disorders
 Functional gastroduodenal disorders
 Functional bowel disorders
 Functional disorders of the biliary tract/pancreas
 Functional disorders of the anus and rectum
GI motility disorders
 Achalasia
 Intestinal dysmotility
 Constipation
 Diarrhea
 Fecal incontinence
 Hirschsprung's disease
 Gastroparesis
 Sphincter of Oddi dysfunction

Topic 6 Integumentary System

Terms and definitions

Overview of integumentary disorders/diseases

Causes of skin disorders

 Skin infections

 Sun exposure, sunburn and heat rash

 Pregnancy

 Natural irritants and allergies

 Drug reactions

 Genetics

Types of skin disorders

 Inflammatory skin disorders

 Viral and bacterial skin problems

 Skin cancer and neoplasms

 Fungal infections

Injuries to the skin

 Bruise and abrasion

 Skin wound

 Open wounds

 Closed wounds

Burns

 Classification of burns

 Chemical and electrical burns

 Scalding and cold burns

 "Rule of Nines"

Topic 7 Lymphatic/Immune Systems

Terms and definitions

Overview of lymphatic disorders and diseases

 Lymphadenitis

 Causes

 Symptoms

 Lymphedema

 Causes

 Symptoms

 Staging and severity

 Lymphomas

 Hodgkin's lymphoma

 Non-Hodgkin's lymphomas

 Disorders of the spleen

 Splenadenoma

 Splenomegaly

 Hypersplenism

 Splenic rupture

Overview of immune disorders and diseases

 Allergy

 Autoimmune disorders and diseases

 Immunodeficiency disorders and diseases

 Congenital immunodeficiency disorders

 Lymphocyte deficiencies

 Combined immunodeficiencies

 Acquired immunodeficiency disorders

Topic 8 Muscular System

Terms and definitions

Overview of muscular disorders and diseases

 Evaluation of muscular disorders

 Classical signs of muscle disorders

Myopathies

 Inheritable myopathies

 Muscular dystrophy

 Congenital myopathies

 Metabolic myopathies

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Periodic paralysis

Topic 9 Nervous System

Terms and definitions

Overview of nervous system disorders/diseases

 Signs and symptoms of nervous system disorders

 Rehabilitation for neurological disorders

Causes of nervous system disorders and diseases

 Congenital malformation

 Infection

 Trauma

 Acute spinal cord injury

 Traumatic brain injury

 Primary brain injury

 Secondary brain injury

 Acquired brain injury

 Neoplasm

 Vascular disease

 Degenerative and other states

Topic 10 Reproductive System

Terms and definitions

Overview of reproductive disorders and diseases

Female reproductive system disorders

 Disorders of the ovaries, fallopian tubes and uterus

 Disorders of the vagina and external genitalia

 Menstrual problems

 Menopause

 Infections of the female reproductive system

Male reproductive system disorders

 Disorders of the scrotum, testicles, and epididymis

 Disorders of the prostate gland

 Disorders of the penis

Sexually transmitted diseases

Topic 11 Respiratory System

Terms and definitions

Overview of respiratory disorders and diseases

 The signs of respiratory distress

Classifications of respiratory disorders

 Upper respiratory tract disorders

 Nasal vestibulitis

 Nosebleeds

 Deviated septum

 Perforated septum

 Rhinitis

 Sinusitis

 Fungal sinus infections

 Epiglottitis

 Otitis media

 Tonsillitis

 Laryngitis

 Lower respiratory tract disorders

 Obstructive diseases

 Restrictive diseases

 Infectious lung disease

 Vascular respiratory disease

 Respiratory tumors

**Topic 12 Sensory System – 1
 Eye and Vision Disorders**

Overview of vision impairment

Disorders of the eyelid, lacrimal system and orbit

Disorders of the conjunctiva

Disorders of the lens

Disorders of the choroid and retina

Disorders of vitreous body and globe

Disorders of optic nerve and visual pathways

Disorders of ocular muscles and eye movement

Disorders of refraction

Disorders of accommodation

Visual disturbances and blindness

Topic 13 **Sensory System – 2**
Ear,Balance,Hearing & other
Sensory System Disorders

Terms and definitions (ear, balance, and hearing disorders)

Overview of ear, balance, and hearing disorders

Hearing loss

 Conductive and sensorineural hearing loss

 Treatment of hearing loss

Balance disorders

Facial nerve disorders

Ear infections

Tumors of the ear

Congenital disorders

Terms and definitions (Taste, smell and touch disorders)

Overview of smell and taste disorders

Overview of somatic sensation disorders

Topic 14 **Skeletal System**

Terms and definitions

Overview of skeletal disorders and diseases

 The remodeling process

Symptoms of bone and joint disorders

Examination of the skeletal system

 Individual variation in the skeletal system

Regional skeletal disorders

 Septal defects, sinus problems, TMJ syndrome

 Disorders of spinal curvature, intervertebral discs

 Shoulder disorders

 Hip fracture

 Ankle and foot problems

Bone trauma and fractures

Overuse conditions, sprains and dislocations

Bone and cartilage tumors

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Topic 15 Urinary System

Terms and definitions

Overview of urinary disorders and diseases

Acute and chronic renal failure

Bladder cancer

Cystitis, urethritis, and lower UTI

Glomerulonephritis

Kidney cancer

Kidney stones

Pyelonephritis

Urinary Incontinence

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