

Integumentary System

Structures	Skin, hair, nails, sweat glands, sebaceous glands
Functions	Protection, temperature regulation, sensation, vitamin D synthesis
Key Terms	dermis, epidermis, subcutaneous, melanin, sebum, diaphoresis, pruritus, alopecia
Word Roots	derm/o, cutane/o, hidr/o, pil/o

Musculoskeletal System

Structures	Bones, cartilage, joints, ligaments, tendons, skeletal muscle
Functions	Support, movement, protection of organs, mineral storage, blood cell production
Key Terms	osteoporosis, arthritis, fracture, atrophy, myopathy, bursitis, crepitus
Word Roots	oste/o, arthr/o, my/o, tendin/o, chondr/o

Cardiovascular System

Structures	Heart, arteries, veins, capillaries
Functions	Circulate blood, oxygen, nutrients; remove waste; regulate temperature
Key Terms	arrhythmia, myocardial infarction, hypertension, atherosclerosis, tachycardia, bradycardia
Word Roots	cardi/o, angi/o, arteri/o, ven/o, phleb/o

Lymphatic & Immune System

Structures	Lymph nodes, spleen, thymus, tonsils, lymph vessels
Functions	Fluid balance, immune defense, fat absorption from digestive tract
Key Terms	lymphadenopathy, splenomegaly, immunodeficiency, antibody, antigen, edema
Word Roots	lymph/o, splen/o, thym/o, immun/o

Respiratory System

Structures	Nose, pharynx, larynx, trachea, bronchi, lungs, diaphragm
Functions	Gas exchange (O ₂ in, CO ₂ out), pH balance, phonation
Key Terms	dyspnea, apnea, tachypnea, pneumonia, bronchospasm, hypoxia, hypercapnia
Word Roots	pneum/o, bronch/o, pulmon/o, nas/o, laryn/o

Digestive System

Structures	Mouth, esophagus, stomach, small & large intestine, liver, gallbladder, pancreas
Functions	Ingestion, digestion, absorption, elimination
Key Terms	dysphagia, cholecystitis, hepatitis, colitis, ileus, hematemesis, melena
Word Roots	gastr/o, hepat/o, enter/o, col/o, chol/e, esophag/o

Urinary System

Structures	Kidneys, ureters, urinary bladder, urethra
Functions	Filter blood, remove waste, regulate fluid/electrolyte/pH balance
Key Terms	hematuria, dysuria, polyuria, oliguria, renal failure, nephrolithiasis, cystitis
Word Roots	nephro/o, ren/o, ur/o, cyst/o, ureter/o

Reproductive System

Structures	Male: testes, epididymis, vas deferens, prostate, penis. Female: ovaries, uterus, vagina, mammary glands
Functions	Reproduction, hormone production
Key Terms	orchitis, prostatitis, oophorectomy, hysterectomy, amenorrhea, menorrhagia, gravida, para
Word Roots	orchi/o, prostat/o, oophoro/o, hyster/o, men/o, mamm/o

Nervous System

Structures	Brain, spinal cord, peripheral nerves, sense organs
Functions	Control and coordination, sensory reception, cognition, homeostasis
Key Terms	neuralgia, neuropathy, encephalitis, hemiplegia, paraplegia, aphasia, syncope
Word Roots	neur/o, encephal/o, myel/o, cerebr/o, gangli/o

Endocrine System

Structures	Pituitary, thyroid, parathyroid, adrenal, pancreas, gonads, thymus, pineal
Functions	Hormone secretion, metabolic regulation, growth, reproduction
Key Terms	diabetes mellitus, hypothyroidism, Cushing's syndrome, acromegaly, polydipsia
Word Roots	thyr/o, adren/o, pancreat/o, gonad/o, hypophys/o

Sensory System (Eyes & Ears)

Structures	Eye: cornea, iris, lens, retina, optic nerve. Ear: pinna, cochlea, vestibule, auditory nerve
Functions	Vision, hearing, equilibrium, proprioception
Key Terms	myopia, glaucoma, cataract, otitis, tinnitus, vertigo, presbycusis
Word Roots	ocul/o, ophthalm/o, retin/o, ot/o, audi/o