

FigureName	Chapter	Subject	Keywords
01-01	01 Whole Body Terminology	Whole Body Terminology	cell, cell membrane, ribosomes, lysosome, mitochondrion
01-02	01 Whole Body Terminology	Whole Body Terminology	midsagittal plane, medial, lateral, planes
01-03	01 Whole Body Terminology	Whole Body Terminology	frontal plane, coronal plane, planes, anterior, posterior
01-04	01 Whole Body Terminology	Whole Body Terminology	transverse plane, superior, cranial, cephalic, inferior, caudal
01-05	01 Whole Body Terminology	Whole Body Terminology	abdominal regions, hypochondriac region, epigastric region, lumbar region, umbilical region, inguinal region, hypogastric region
01-06	01 Whole Body Terminology	Whole Body Terminology	right upper quadrant, left upper quadrant, right lower quadrant, left lower quadrant, abdominal quadrants
01-07	01 Whole Body Terminology	Whole Body Terminology	ventral cavity, thoracic cavity, abdominopelvic cavity, pelvic cavity, abdominal cavity, spinal cavity, cranial cavity
01-08	01 Whole Body Terminology	Whole Body Terminology	cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx
01-09	01 Whole Body Terminology	Whole Body Terminology	midsagittal plane, frontal plane, coronal plane, transverse plane, anatomical position, midline, distal, proximal, medial, lateral, superior, inferior, anterior, posterior
01-10	01 Whole Body Terminology	Whole Body Terminology	supine position, positioning
01-11	01 Whole Body Terminology	Whole Body Terminology	prone position, positioning
01-12	01 Whole Body Terminology	Whole Body Terminology	pathology, microscope, microbiology
01-13	01 Whole Body Terminology	Whole Body Terminology	physician, physical examination, patient holistic medicine, alternative therapies, complementary medicine
01-14	01 Whole Body Terminology	Whole Body Terminology	hematoma, bruise, contusion
01-15	01 Whole Body Terminology	Whole Body Terminology	bacteria, culture, media, septicemia
01-16	01 Whole Body Terminology	Whole Body Terminology	

01-17	01 Whole Body Terminology	Whole Body Terminology	bacteria, sensitivity, septicemia, agar
01-18	01 Whole Body Terminology	Whole Body Terminology	CT, chest, abdomen, MRI, head, sagittal, transverse, coronal
01-19	01 Whole Body Terminology	Whole Body Terminology	cell division, mitosis, meiosis, genetics
01-20	01 Whole Body Terminology	Whole Body Terminology	dominance, genetic disorders, genetics, phenotype, genotype, heterozygous
01-21	01 Whole Body Terminology	Whole Body Terminology	autosomal dominant, genetics, polydactyly, heterozygous
01-22A	01 Whole Body Terminology	Whole Body Terminology	autosomal recessive, genetics, Cystic fibrosis, homozygous, heterozygous
01-22B	01 Whole Body Terminology	Whole Body Terminology	autosomal recessive, genetics, Cystic fibrosis, homozygous, heterozygous
01-22C	01 Whole Body Terminology	Whole Body Terminology	autosomal recessive, genetics, Cystic fibrosis, homozygous, heterozygous
01-23	01 Whole Body Terminology	Whole Body Terminology	sex-linked recessive pattern, genetics, hemophilia
01-24	01 Whole Body Terminology	Whole Body Terminology	congenital anomalies, birth defect, genetics, chromosomal abnormalities
01-25	01 Whole Body Terminology	Whole Body Terminology	Gower's maneuver, muscular dystrophy, Duchenne's muscular dystrophy, genetics
01-26	01 Whole Body Terminology	Whole Body Terminology	thigh folds, Ortolani's sign, congenital hip dislocation, acetabulum
01-27	01 Whole Body Terminology	Whole Body Terminology	hydrocephalus, cerebrospinal fluid, large head, ventricles
01-28A	01 Whole Body Terminology	Whole Body Terminology	congenital defect, spina bifida occulta, meningocele, myelomeningocele
01-28B	01 Whole Body Terminology	Whole Body Terminology	congenital defect, spina bifida occulta, meningocele, myelomeningocele
01-28C	01 Whole Body Terminology	Whole Body Terminology	congenital defect, spina bifida occulta, meningocele, myelomeningocele

01-29	01 Whole Body Terminology	Whole Body Terminology	congenital defects, atrial septal defect, ventral septal defect, patent ductus arteriosus, coarctation of the aorta, tetralogy of Fallot
01-30	01 Whole Body Terminology	Whole Body Terminology	congenital defects, Meckel's diverticulum, esophageal atresia, congenital diaphragmatic hernia, imperforate anus
01-31A	01 Whole Body Terminology	Whole Body Terminology	congenital defects, cleft lip, cleft palate
01-31B	01 Whole Body Terminology	Whole Body Terminology	congenital defects, cleft lip, cleft palate
01-32	01 Whole Body Terminology	Whole Body Terminology	congenital defects, pyloric stenosis, hypertrophy
01-33	01 Whole Body Terminology	Whole Body Terminology	congenital defects, Hirschsprung's disease, sigmoid colon, peristalsis, hypertonic distended colon
01-34	01 Whole Body Terminology	Whole Body Terminology	congenital defects, hypospadias, chordee, epispadias, penis
01-36	01 Whole Body Terminology	Whole Body Terminology	anatomic position, sagittal plane, transverse plane, coronal plane, frontal plane, horizontal plane
01-37	01 Whole Body Terminology	Whole Body Terminology	anatomic position, superior, cranial, inferior, caudal, medial, lateral, proximal, distal
01-38	01 Whole Body Terminology	Whole Body Terminology	thoracic cavity, abdominopelvic cavity, body organs
01-39	01 Whole Body Terminology	Whole Body Terminology	cell, tissue, organ, organ system, organism
01-40	01 Whole Body Terminology	Whole Body Terminology	integumentary system, skeletal system, muscular system
01-41	01 Whole Body Terminology	Whole Body Terminology	nervous system, endocrine system, cardiovascular system
01-42	01 Whole Body Terminology	Whole Body Terminology	lymphatic system, immune system, respiratory system, digestive system

01-43	01 Whole Body Terminology	Whole Body Terminology	urinary system, male reproductive system, female reproductive system
01-44	01 Whole Body Terminology	Whole Body Terminology	hydrogen atom, proton, electron chemistry, periodic table, elements
01-45	01 Whole Body Terminology	Whole Body Terminology	
01-46	01 Whole Body Terminology	Whole Body Terminology	sodium chloride, table salt, ionic bond
01-47	01 Whole Body Terminology	Whole Body Terminology	compounds, covalent bonding, hydrogen water molecule, oxygen, hydrogen
01-48	01 Whole Body Terminology	Whole Body Terminology	
01-49	01 Whole Body Terminology	Whole Body Terminology	glucose, fructose, sucrose, disaccharide
01-50	01 Whole Body Terminology	Whole Body Terminology	triacylglycerol, glycerol, fatty acid
01-51	01 Whole Body Terminology	Whole Body Terminology	amino acids, proteins, sulfur, amine group
01-52	01 Whole Body Terminology	Whole Body Terminology	dipeptide bond, protein, peptide bond, covalent bond
01-53	01 Whole Body Terminology	Whole Body Terminology	protein, primary structure, secondary structure, tertiary structure, quaternary structure
01-54A	01 Whole Body Terminology	Whole Body Terminology	nucleotide, nitrogen base, pyrimidines, thymine, cytosine, uracil
01-54B	01 Whole Body Terminology	Whole Body Terminology	nucleotide, nitrogen base, pyrimidines, thymine, cytosine, uracil
01-55	01 Whole Body Terminology	Whole Body Terminology	adenosine triphosphate, ATP, energy experiment, osmosis, diffusion, osmotic pressure
01-56	01 Whole Body Terminology	Whole Body Terminology	osmosis, diffusion, red blood cells, salt solution, hypotonic solution, hypertonic solution, isotonic solution
01-57	01 Whole Body Terminology	Whole Body Terminology	
01-58	01 Whole Body Terminology	Whole Body Terminology	pH, base, acid

01-59	01 Whole Body Terminology	Whole Body Terminology	animal cell, lysosome, nucleus, mitochondrion, Golgi apparatus, centriole, nucleolus, endoplasmic reticulum
01-60	01 Whole Body Terminology	Whole Body Terminology	plant cell, nucleus, mitochondrion, Golgi complex, ribosome, cytoplasm, cell wall, vacuole nucleolus, endoplasmic reticulum
01-61	01 Whole Body Terminology	Whole Body Terminology	cell membrane, plasma membrane, plasmalemma
01-62	01 Whole Body Terminology	Whole Body Terminology	cell membrane, protein, plasma membrane, phospholipid layer
01-63	01 Whole Body Terminology	Whole Body Terminology	protein, sodium-potassium pump, cell membrane, muscle cells, nerve cells
01-64	01 Whole Body Terminology	Whole Body Terminology	nuclear membrane, nuclear envelope, nucleus, endoplasmic reticulum
01-65	01 Whole Body Terminology	Whole Body Terminology	chromatin, human chromosomes, DNA
01-66	01 Whole Body Terminology	Whole Body Terminology	mitochondria, crista, cellular respiration
01-67	01 Whole Body Terminology	Whole Body Terminology	endoplasmic reticulum, nucleus, ribosomes, Golgi
01-68	01 Whole Body Terminology	Whole Body Terminology	protein synthesis, amino acid, RNA
01-69	01 Whole Body Terminology	Whole Body Terminology	centrioles, animal cells, centrosome, microtubule, tubulin
01-70	01 Whole Body Terminology	Whole Body Terminology	cilia, flagella, plasma membrane, organelles
01-71	01 Whole Body Terminology	Whole Body Terminology	chloroplast, plant cells, organelles, chlorophyll
01-72	01 Whole Body Terminology	Whole Body Terminology	compound microscope, cell structure, magnification
01-73	01 Whole Body Terminology	Whole Body Terminology	Paramecium, compound microscope, cell structure, cilia

01-74	01 Whole Body Terminology	Whole Body Terminology	glycolysis, biochemical respiration, pyruvic acid
01-75	01 Whole Body Terminology	Whole Body Terminology	Krebs cycle, citric acid, pyruvic acid, glycolysis
01-76	01 Whole Body Terminology	Whole Body Terminology	electron transport, electron transfer, ATP
01-77	01 Whole Body Terminology	Whole Body Terminology	proteins, fats, biochemical respiration
01-78	01 Whole Body Terminology	Whole Body Terminology	glucose, glycolysis, pyruvic acid, ATP, respiration
01-79	01 Whole Body Terminology	Whole Body Terminology	cellular respiration, ATP, amino acids, carbohydrate
01-80	01 Whole Body Terminology	Whole Body Terminology	double helical chain, DNA, deoxyribonucleic acid, nucleotides
01-81	01 Whole Body Terminology	Whole Body Terminology	hydrogen bond, pyrimidines, DNA
01-82	01 Whole Body Terminology	Whole Body Terminology	DNA replication, nucleotides, hydrogen bonds
01-83	01 Whole Body Terminology	Whole Body Terminology	cell cycle, mitosis, prophase, metaphase, anaphase, telophase, cytokinesis
01-84	01 Whole Body Terminology	Whole Body Terminology	mitosis, interphase, prophase, metaphase, anaphase, telophase
01-85	01 Whole Body Terminology	Whole Body Terminology	sexual reproduction, zygote, fertilization, egg, sperm, meiosis
01-86	01 Whole Body Terminology	Whole Body Terminology	meiosis, chromosomes, prophase, metaphase, anaphase, telophase, interphase
01-87	01 Whole Body Terminology	Whole Body Terminology	homologous chromosomes, meiosis, tetrads, crossing-over, chiasmata
01-88	01 Whole Body Terminology	Whole Body Terminology	spermatogenesis, seminiferous tubules, testes, sperm

01-89	01 Whole Body Terminology	Whole Body Terminology	oogenesis, ovary, egg production, puberty
01-90	01 Whole Body Terminology	Whole Body Terminology	mitosis, meiosis, prophase, metaphase, anaphase, telophase, daughter cells
01-91	01 Whole Body Terminology	Whole Body Terminology	squamous epithelial cells, tissue, histology
01-92	01 Whole Body Terminology	Whole Body Terminology	columnar epithelial cells, tissue, histology
01-93	01 Whole Body Terminology	Whole Body Terminology	cuboidal epithelial cells, tissue, histology
01-94	01 Whole Body Terminology	Whole Body Terminology	areolar connective tissue, loose connective tissue, histology
01-95	01 Whole Body Terminology	Whole Body Terminology	adipose tissue, histology, mammary glands, loose connective tissue, fat cells
01-96	01 Whole Body Terminology	Whole Body Terminology	hyaline cartilage, connective tissue, histology, chondrocytes, lacuna
01-97	01 Whole Body Terminology	Whole Body Terminology	fibrocartilage, connective tissue, histology, collagen
01-98	01 Whole Body Terminology	Whole Body Terminology	elastic cartilage, connective tissue, histology, elastin fibers
01-99	01 Whole Body Terminology	Whole Body Terminology	compact bone, connective tissue, histology, osseous tissue
01-100	01 Whole Body Terminology	Whole Body Terminology	blood, connective tissue, histology, hematopoietic tissue
01-101	01 Whole Body Terminology	Whole Body Terminology	lymph capillary, lymphoid tissue, connective tissue, histology
01-102	01 Whole Body Terminology	Whole Body Terminology	muscle cells, smooth muscle, nonstriated muscle, muscle fibers
01-103	01 Whole Body Terminology	Whole Body Terminology	skeletal muscle cells, striated muscle, voluntary muscles
01-104	01 Whole Body Terminology	Whole Body Terminology	cardiac muscle cells, striated muscle, smooth muscle, autonomic nervous system

01-105	01 Whole Body Terminology	Whole Body Terminology	neuron, multipolar, motor neuron, nervous tissue, cell body, dendrites, axon, myelin
01-106	01 Whole Body Terminology	Whole Body Terminology	anatomical position, median, proximal, distal, medial, lateral, midline
01-107	01 Whole Body Terminology	Whole Body Terminology	frontal, coronal, transverse, superior, cranial, inferior, caudal, anterior, ventral, posterior, dorsal
01-108	01 Whole Body Terminology	Whole Body Terminology	cavities, anterior, ventral, posterior, dorsal, cranial, spinal, orbital, nasal, buccal, oral, thoracic, diaphragm, abdominal, pelvic
01-109	01 Whole Body Terminology	Whole Body Terminology	right hypochondriac region, epigastric region, right lumbar region, umbilical region, left lumbar region, right iliac region, hypogastric region, left iliac region
01-110	01 Whole Body Terminology	Whole Body Terminology	atom, proton, neutron, nucleus, electron
01-111	01 Whole Body Terminology	Whole Body Terminology	nucleic acid, carbon, phosphate, nitrogen, sugar
01-112	01 Whole Body Terminology	Whole Body Terminology	DNA, double helix, heredity
01-113	01 Whole Body Terminology	Whole Body Terminology	neutralization, exchange reaction, salt
01-114	01 Whole Body Terminology	Whole Body Terminology	pH, base, acid, body fluids
01-115	01 Whole Body Terminology	Whole Body Terminology	animal cell, lysosome, nucleus, mitochondrion, Golgi apparatus, centriole, nucleolus, endoplasmic reticulum
01-116	01 Whole Body Terminology	Whole Body Terminology	meiosis, fertilization, zygote, chromosomes, sexual reproduction
01-117	01 Whole Body Terminology	Whole Body Terminology	mitosis, interphase, prophase, metaphase, anaphase, telophase
01-118	01 Whole Body Terminology	Whole Body Terminology	diffusion, equilibrium, sugar, alveolus

01-119	01 Whole Body Terminology	Whole Body Terminology	osmosis, diffusion, sausage, selective permeable membrane
01-120	01 Whole Body Terminology	Whole Body Terminology	hypertonic, hypotonic, isotonic, osmotic pressure, water molecules
01-121	01 Whole Body Terminology	Whole Body Terminology	filtration, passive transport, glomerulus, kidney
01-122	01 Whole Body Terminology	Whole Body Terminology	active transport, concentration gradient, ATP
01-123	01 Whole Body Terminology	Whole Body Terminology	specialized cells, nerve cells, red blood cells
01-124	01 Whole Body Terminology	Whole Body Terminology	normal cell, cancer cell, tumor, neoplasm
01-125	01 Whole Body Terminology	Whole Body Terminology	mucous membrane, mucosa, meninges, pleura, pericardium, peritoneum, serous membrane
01-126	01 Whole Body Terminology	Whole Body Terminology	atom, molecule, organelle, cell, tissue, organ, organ system, organism
01-127	01 Whole Body Terminology	Whole Body Terminology	Neisseria gonorrhoea, sexually transmitted disease, bacteria
01-128	01 Whole Body Terminology	Whole Body Terminology	hepatitis B, electron micrograph, virus, liver disease
01-129	01 Whole Body Terminology	Whole Body Terminology	Candida albicans, protozoa, yeast infection
01-130	01 Whole Body Terminology	Whole Body Terminology	protozoa, amoeba, paramecium, single-celled parasite
01-131	01 Whole Body Terminology	Whole Body Terminology	infection, infectious agent, reservoir, source, portal of exit, mode of transmission, portal of entry, susceptible host
01-132	01 Whole Body Terminology	Whole Body Terminology	bodily fluids, secretions, infectious agents, specimens

01-133	01 Whole Body Terminology	Whole Body Terminology	sneeze, droplet nuclei, airborne transmission,
01-134	01 Whole Body Terminology	Whole Body Terminology	deer tick, vectorborne transmission, Lyme disease
01-135	01 Whole Body Terminology	Whole Body Terminology	inflammation, nonspecific response, defense mechanism, cellular injury
01-136	01 Whole Body Terminology	Whole Body Terminology	airborne transmission, airborne precautions, CDC guidelines
01-136A	01 Whole Body Terminology	Whole Body Terminology	contact transmission, contact precautions, CDC guidelines
01-137	01 Whole Body Terminology	Whole Body Terminology	contact transmission, contact precautions, CDC guidelines
01-138	01 Whole Body Terminology	Whole Body Terminology	nutrition, Food Guide Pyramid, food groups
01-139	01 Whole Body Terminology	Whole Body Terminology	nutrition, food label, nutrition facts
01-140	01 Whole Body Terminology	Whole Body Terminology	bacteria, spores, anthrax
01-141	01 Whole Body Terminology	Whole Body Terminology	aspergillosis, fungus, aspergillus fumigatus, immunocomprised
01-142	01 Whole Body Terminology	Whole Body Terminology	Giardia lamblia, giardiasis, water-borne illness
01-143	01 Whole Body Terminology	Whole Body Terminology	herpes simplex virus, sexually transmitted disease, infectious disease, fever blisters
01-144	01 Whole Body Terminology	Whole Body Terminology	genital herpes, sexually transmitted disease, penis, vaginal opening
01-145	01 Whole Body Terminology	Whole Body Terminology	AIDS, pneumocystis pneumonia, immunocompromised
01-146	01 Whole Body Terminology	Whole Body Terminology	Toxoplasma gondii, toxoplasmosis, pregnancy
02-01	02 The Integumentary System	The Integumentary System	skin, dermis, epidermis, subcutaneous layer, dermal papilla

02-02	02 The Integumentary System	The Integumentary System	hair follicle, shaft of hair, epidermis, root of hair, arrector pili muscle, sebaceous gland
02-03	02 The Integumentary System	The Integumentary System	nail body, cuticle, lunula, free edge, nail bed
02-04	02 The Integumentary System	The Integumentary System	epidermis, dermis, subcutaneous layer, hair shaft, pore, papilla, capillary, sweat gland, sebaceous gland nerve fiber, sweat gland, blood vessel, adipose cells
02-05	02 The Integumentary System	The Integumentary System	alopecia, hair loss
02-06	02 The Integumentary System	The Integumentary System	wound measuring guide, bed sore, wound
02-07	02 The Integumentary System	The Integumentary System	dermatitis, skin inflammation
02-08	02 The Integumentary System	The Integumentary System	ecchymosis, bruise, black and blue
02-09	02 The Integumentary System	The Integumentary System	furuncle, boil, skin lesion
02-10	02 The Integumentary System	The Integumentary System	hemangioma, blood vessels, tumor
02-11	02 The Integumentary System	The Integumentary System	paronychia, nail edge, infection
02-12	02 The Integumentary System	The Integumentary System	sebaceous cyst, infection, skin lesion
02-13	02 The Integumentary System	The Integumentary System	urticaria, hives, itching
02-14	02 The Integumentary System	The Integumentary System	fissure, ulcer, skin lesion
02-15	02 The Integumentary System	The Integumentary System	macule, skin lesion, freckle, petechiae, vitiligo
02-16	02 The Integumentary System	The Integumentary System	papule, skin lesion, pimple
02-17	02 The Integumentary System	The Integumentary System	vesicle, skin lesion, blister
02-18	02 The Integumentary System	The Integumentary System	first-degree burn, sun burn, skin damage

02-19	02 The Integumentary System	The Integumentary System	second-degree burn, blistering, epidermis
02-20	02 The Integumentary System	The Integumentary System	third-degree burn, epidermis, nerve damage
02-21	02 The Integumentary System	The Integumentary System	basal cell carcinoma, skin cancer
02-22	02 The Integumentary System	The Integumentary System	squamous cell carcinoma
02-23	02 The Integumentary System	The Integumentary System	seborrheic dermatitis
02-24	02 The Integumentary System	The Integumentary System	herpes zoster, chickenpox, shingles
02-25	02 The Integumentary System	The Integumentary System	psoriasis, plaques, skin lesions
02-26	02 The Integumentary System	The Integumentary System	tinea capitis, fungal infection, scalp infection
02-27	02 The Integumentary System	The Integumentary System	tinea corporis, fungal infection, vesicles, papules
02-28	02 The Integumentary System	The Integumentary System	tinea pedis, athlete's foot, fungal infection
02-29	02 The Integumentary System	The Integumentary System	melanoma, skin cancer, melanocytes
02-30	02 The Integumentary System	The Integumentary System	bacterial infection, inflammation, fingernail
02-31	02 The Integumentary System	The Integumentary System	tissue repair, connective tissue, scar formation
02-32	02 The Integumentary System	The Integumentary System	tissue healing, primary union, secondary union, secondary intention
02-33	02 The Integumentary System	The Integumentary System	contact dermatitis, allergic reaction, poison ivy
02-34	02 The Integumentary System	The Integumentary System	dermis, epidermis, hypodermis, skin

02-35	02 The Integumentary System	The Integumentary System	papule, macule, scale, wheal, cyst, vesicle, ulcer, plaque, pustule, bulla, fissure
02-36	02 The Integumentary System	The Integumentary System	herpes simplex virus type 1, herpes labialis, vesicles
02-37	02 The Integumentary System	The Integumentary System	folliculitis, hair follicle, infection, pustules
02-38	02 The Integumentary System	The Integumentary System	hair, head lice, pediculosis, infestation
02-39	02 The Integumentary System	The Integumentary System	scabies, mites, seven year itch, skin infection
02-40	02 The Integumentary System	The Integumentary System	seborrheic dermatitis, oil-secreting glands, sebum, cradle cap
02-41	02 The Integumentary System	The Integumentary System	eczema, dermatitis, vesicles, pustules, atopic dermatitis
02-42A	02 The Integumentary System	The Integumentary System	hemangioma, blood vessels, tumor, port-wine hemangioma, strawberry hemangioma, cherry hemangioma
02-42B	02 The Integumentary System	The Integumentary System	hemangioma, blood vessels, tumor, port-wine hemangioma, strawberry hemangioma, cherry hemangioma
02-43	02 The Integumentary System	The Integumentary System	rule of nines, body surface area, burns, chance of survival
02-44	02 The Integumentary System	The Integumentary System	epidermis, dermis, appendages
02-45	02 The Integumentary System	The Integumentary System	epidermis, dermis, stratum corneum, stratum spinosum, stratum germinativum
02-46	02 The Integumentary System	The Integumentary System	hair shaft, hair follicle, hair, epidermis, dermis, hair root
02-47	02 The Integumentary System	The Integumentary System	finger nail, free edge, lunula, eponychium, matrix
02-48	02 The Integumentary System	The Integumentary System	square centimeter of skin, nerve endings, receptors
02-49A	02 The Integumentary System	The Integumentary System	epidermis, dermis, cross section of skin

02-49B	02 The Integumentary System	The Integumentary System	epidermis, dermis, cross section of skin
02-50	02 The Integumentary System	The Integumentary System	finger nail, free edge, lunula, eponychium
02-51	02 The Integumentary System	The Integumentary System	burns, first degree, second degree, third degree
02-52	02 The Integumentary System	The Integumentary System	amebiasis, liver, colon, infection, tropical country
02-53	02 The Integumentary System	The Integumentary System	angioma, benign tumor, blood vessels
02-54	02 The Integumentary System	The Integumentary System	fungal infection, finger nail, Candidiasis
02-55	02 The Integumentary System	The Integumentary System	cold sore, herpes, fever blister
02-56	02 The Integumentary System	The Integumentary System	cutaneous anthrax, skin lesion, spores
02-57	02 The Integumentary System	The Integumentary System	cutaneous anthrax, skin lesion, spores
02-58	02 The Integumentary System	The Integumentary System	diphtheria, skin lesion, bacterial infection
02-59	02 The Integumentary System	The Integumentary System	facial erysipelas, cellulitis, staph infection
02-60	02 The Integumentary System	The Integumentary System	gangrene, necrosis, debridement
02-61	02 The Integumentary System	The Integumentary System	childhood illness, German measles, rubella
02-62	02 The Integumentary System	The Integumentary System	gonorrhea, sexually transmitted disease, foot lesion
02-63	02 The Integumentary System	The Integumentary System	purpura, coagulation, thrombosis, bruising
02-64	02 The Integumentary System	The Integumentary System	hairy leukoplakia, AIDS, mucous membranes
02-65	02 The Integumentary System	The Integumentary System	bull's eye rash, Lyme disease, vectorborne illness, tick
02-66	02 The Integumentary System	The Integumentary System	papilloma, benign tumor, epithelial tumor

02-67	02 The Integumentary System	The Integumentary System	pityriasis rosea, skin rash, herald patch, macules
02-68	02 The Integumentary System	The Integumentary System	bubo, lymph glands, plague
02-69	02 The Integumentary System	The Integumentary System	cradle cap, seborrheic dermatitis, sebaceous glands, newborns
02-70	02 The Integumentary System	The Integumentary System	Rocky Mountain spotted fever, vectorborne illness, tick
02-71	02 The Integumentary System	The Integumentary System	mite, allergies, asthma, scabies, vector
02-72	02 The Integumentary System	The Integumentary System	scarlet fever, pharyngitis, strep infection
02-73	02 The Integumentary System	The Integumentary System	scarlet fever, strawberry tongue, pharyngitis, strep infection
02-74	02 The Integumentary System	The Integumentary System	syphilis, sexually transmitted disease, STD
02-75	02 The Integumentary System	The Integumentary System	gumma, syphilis, sexually transmitted disease, STD
02-76	02 The Integumentary System	The Integumentary System	toxic shock syndrome, tampons, septic shock, staph infection
02-77	02 The Integumentary System	The Integumentary System	toxic shock syndrome, tampons, septic shock, staph infection
02-78	02 The Integumentary System	The Integumentary System	tularemia, tick, vectorborne illness, skin lesion
02-79	02 The Integumentary System	The Integumentary System	typhoid fever, rose spots, septicemia, high fever
02-80	02 The Integumentary System	The Integumentary System	spirochete, infectious disease, yaws, skin lesion
03-01	03 The Skeletal System	The Skeletal System	long bone, diaphysis, epiphysis
03-02A	03 The Skeletal System	The Skeletal System	spine, condyle, tuberosity, crest, neck, bone head, trochanter, bone processes
03-02B	03 The Skeletal System	The Skeletal System	spine, condyle, tuberosity, crest, neck, bone head, trochanter, bone processes

03-02C	03 The Skeletal System	The Skeletal System	spine, condyle, tuberosity, crest, neck, bone head, trochanter, bone processes
03-02D	03 The Skeletal System	The Skeletal System	spine, condyle, tuberosity, crest, neck, bone head, trochanter, bone processes
03-03	03 The Skeletal System	The Skeletal System	frontal bone, parietal bone, temporal bone, occipital bone, sphenoid bone, ethmoid bone, cranial bones
03-04A	03 The Skeletal System	The Skeletal System	fontanel, cranium, infants, sutures
03-04B	03 The Skeletal System	The Skeletal System	fontanel, cranium, infants, sutures
03-05	03 The Skeletal System	The Skeletal System	facial bones, frontal bone, temporal bone, parietal bone, nasal bone, lacrimal bone, zygomatic bone, vomer bone, mandible, maxillae
03-06	03 The Skeletal System	The Skeletal System	thyroid, Adam's apple, styloid process, hyoid bone
03-07	03 The Skeletal System	The Skeletal System	cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx, intervertebral disk, vertebral body
03-08	03 The Skeletal System	The Skeletal System	vertebral arch, vertebral body, vertebral foramen, lamina, transverse process, spinous process
03-09	03 The Skeletal System	The Skeletal System	true ribs, thorax, sternum, false ribs, clavicle, manubrium, body, xiphoid process, costal cartilage, rib cage
03-10	03 The Skeletal System	The Skeletal System	scapula, acromion, shoulder blade
03-11	03 The Skeletal System	The Skeletal System	skull, sternum, ribs, cervical vertebrae, clavicle, scapula, humerus, ulna, radius, carpals, phalanges
03-12	03 The Skeletal System	The Skeletal System	sacrum, ilium, ischial spine, ischium, sacral foramen, sacroiliac joint, iliac crest, anterior superior iliac spine, coccyx, acetabulum, obturator foramen, symphysis pubis

03-13	03 The Skeletal System	The Skeletal System	femur, patella, tibial tuberosity, tibia, fibula, leg
03-14	03 The Skeletal System	The Skeletal System	tarsals, metatarsals, phalanges, calcaneus, talus, lateral malleolus
03-15	03 The Skeletal System	The Skeletal System	calcaneus, talus, phalanges
03-16	03 The Skeletal System	The Skeletal System	normal spine, osteoporosis, dowager's hump
03-17	03 The Skeletal System	The Skeletal System	talipes equinovarus, clubfoot, congenital deformity,
03-18	03 The Skeletal System	The Skeletal System	spine, abnormal curvatures, scoliosis, lordosis, kyphosis
03-19	03 The Skeletal System	The Skeletal System	scoliosis screening, normal spine
03-20	03 The Skeletal System	The Skeletal System	scoliosis, abnormal curvature, spine
03-21	03 The Skeletal System	The Skeletal System	scoliosis, abnormal curvature, spine
03-22	03 The Skeletal System	The Skeletal System	closed fracture, simple fracture, complete fracture
03-23	03 The Skeletal System	The Skeletal System	open fracture, compound fracture, complete fracture
03-24	03 The Skeletal System	The Skeletal System	greenstick fracture, incomplete fracture, broken bone
03-25	03 The Skeletal System	The Skeletal System	compression fracture, broken bones, fracture of vertebra
03-26	03 The Skeletal System	The Skeletal System	impacted fracture, humerus, broken bones
03-27	03 The Skeletal System	The Skeletal System	comminuted fracture, humerus, broken bones
03-28	03 The Skeletal System	The Skeletal System	Colles' fracture, broken wrist, radius
03-29	03 The Skeletal System	The Skeletal System	closed reduction, fracture, elbow
03-30A	03 The Skeletal System	The Skeletal System	stabilizing fractures, short leg cast, long leg cast, wrist immobilizer
03-30B	03 The Skeletal System	The Skeletal System	stabilizing fractures, short leg cast, long leg cast, wrist immobilizer
03-30C	03 The Skeletal System	The Skeletal System	stabilizing fractures, short leg cast, long leg cast, wrist immobilizer

03-31	03 The Skeletal System	The Skeletal System	open reduction, surgery, stabilizing pin
03-32	03 The Skeletal System	The Skeletal System	internal fixation devices, hip fracture, femur
03-33	03 The Skeletal System	The Skeletal System	bone scan, head, shoulders, upper spine, posterior view
03-34	03 The Skeletal System	The Skeletal System	bone scan, head, shoulders, upper spine, anterior view
03-35	03 The Skeletal System	The Skeletal System	bone marrow aspiration, sternum, iliac crest, joint, tibia
03-36	03 The Skeletal System	The Skeletal System	flat bone, short bones, long bones, irregular bone
03-37	03 The Skeletal System	The Skeletal System	skeletal muscles, musculoskeletal system, striated muscle
03-38	03 The Skeletal System	The Skeletal System	spinal deformities, kyphosis, lordosis, scoliosis
03-39	03 The Skeletal System	The Skeletal System	osteoporosis, Dowager's hump, menopause, bone loss
03-40	03 The Skeletal System	The Skeletal System	osteoporosis, bone mass, fractures, menopause, distal radius, proximal femur, spine, kyphosis
03-41	03 The Skeletal System	The Skeletal System	osteoarthritis, rheumatoid arthritis, joint disease
03-42	03 The Skeletal System	The Skeletal System	hallus valgus, bunion, metatarsophalangeal joint
03-43	03 The Skeletal System	The Skeletal System	skeletal traction, fractures, skin traction
03-44	03 The Skeletal System	The Skeletal System	sprained ankle, fibula, tibia, swelling
03-45	03 The Skeletal System	The Skeletal System	dislocation, subluxation, shoulder
03-46A	03 The Skeletal System	The Skeletal System	intervertebral disk, herniated disk, spine, herniated nucleus pulposus
03-46B	03 The Skeletal System	The Skeletal System	intervertebral disk, herniated disk, spine, herniated nucleus pulposus
03-47	03 The Skeletal System	The Skeletal System	carpal tunnel syndrome, repetitive motion injury, ligaments, tendons

03-48	03 The Skeletal System	The Skeletal System	plantar fasciitis, calcaneal spur, heel spur, foot
03-49A	03 The Skeletal System	The Skeletal System	meniscus, anterior cruciate ligament, patella
03-49B	03 The Skeletal System	The Skeletal System	meniscus, anterior cruciate ligament, patella
03-50	03 The Skeletal System	The Skeletal System	bone cells, osteoprogenitor cell, osteoblast, osteocyte, osteoclast
03-51	03 The Skeletal System	The Skeletal System	diaphysis, epiphysis, medullary cavity, compact bone, yellow bone marrow, medullary cavity, spongy bone
03-52	03 The Skeletal System	The Skeletal System	endochondral ossification, bone development, periosteum, cartilage
03-53	03 The Skeletal System	The Skeletal System	compact bone, dense bone, histology, osteon, haversian system
03-54	03 The Skeletal System	The Skeletal System	flat bone, short bones, long bones, irregular bone
03-55	03 The Skeletal System	The Skeletal System	human skeletal system, anterior view, posterior, axial skeleton, appendicular skeleton
03-56	03 The Skeletal System	The Skeletal System	paranasal sinuses, ear, ossicles, cranium, external ear, middle ear, inner ear
03-57	03 The Skeletal System	The Skeletal System	cranial bones, frontal bone, sphenoid bone, nasal bone, lacrimal bone, ethmoid bone, zygomatic bone, maxilla, mandible, temporal bone
03-58	03 The Skeletal System	The Skeletal System	facial bones, frontal bone, temporal bone, parietal bone, nasal bone, lacrimal bone, zygomatic bone, vomer, mandible, maxillae
03-59	03 The Skeletal System	The Skeletal System	hyoid bone, anterior view, axial skeleton, articulation

03-60	03 The Skeletal System	The Skeletal System	vertebra, spinal column, intervertebral disks, body, pedicle, spinous process, transverse process
03-61	03 The Skeletal System	The Skeletal System	vertebral column, intervertebral disks, cervical vertebrae, thoracic vertebrae, lumbar vertebrae, sacrum, coccyx, anterior view
03-62	03 The Skeletal System	The Skeletal System	atlas, superior view, posterior-superior view, axis, spine
03-63	03 The Skeletal System	The Skeletal System	sternum, manubrium, gladiolus, xiphoid process
03-64	03 The Skeletal System	The Skeletal System	thoracic cage, ribs, sternum, costal cartilage, clavicle
03-65	03 The Skeletal System	The Skeletal System	scapular, shoulder blade, coracoid process, glenoid fossa, spinous process, axillary border, appendicular skeleton
03-66	03 The Skeletal System	The Skeletal System	humerus, appendicular skeleton, upper extremity, trochlea
03-67	03 The Skeletal System	The Skeletal System	ulna, radius, upper extremity, forearm
03-68	03 The Skeletal System	The Skeletal System	wrist, hand, phalanges, metacarpals, carpals, ulna, radius
03-69	03 The Skeletal System	The Skeletal System	coxal bone, hip, pubis, ischium, ilium
03-70	03 The Skeletal System	The Skeletal System	femur, lower extremity, greater trochanter, thigh, largest bone
03-71	03 The Skeletal System	The Skeletal System	tibia, fibula, lower extremity, leg, shin, calf
03-72A	03 The Skeletal System	The Skeletal System	ankle, foot, phalanges, metatarsals, tarsals, calcaneus, talus, fibula, tibia
03-72B	03 The Skeletal System	The Skeletal System	ankle, foot, phalanges, metatarsals, tarsals, calcaneus, talus, fibula, tibia

03-73A	03 The Skeletal System	The Skeletal System	long bone, diaphysis, epiphysis
03-73B	03 The Skeletal System	The Skeletal System	long bone, diaphysis, epiphysis
03-74	03 The Skeletal System	The Skeletal System	long bone, flat bone, irregular bone, short bone
03-75	03 The Skeletal System	The Skeletal System	axial skeleton, appendicular skeleton, joints
03-76	03 The Skeletal System	The Skeletal System	cranium, skull, facial bones
03-77A	03 The Skeletal System	The Skeletal System	spine, atlas, axis, vertebra
03-77B	03 The Skeletal System	The Skeletal System	spine, atlas, axis, vertebra
03-78	03 The Skeletal System	The Skeletal System	vertebra, lamina, spinous process, pedicle
03-79	03 The Skeletal System	The Skeletal System	ribs, sternum, rib cage, clavicle
03-80	03 The Skeletal System	The Skeletal System	radius, ulna, arm
03-81	03 The Skeletal System	The Skeletal System	carpals, metacarpals, phalanges, hand
03-82	03 The Skeletal System	The Skeletal System	male pelvis, female pelvis, pubis, acetabulum, obturator foramen, ilium, sacrum, coccyx, false pelvis
03-83	03 The Skeletal System	The Skeletal System	femur, lateral condyle, medial condyle, greater trochanter
03-84	03 The Skeletal System	The Skeletal System	foot, tarsals, metatarsals, phalanges
03-85A	03 The Skeletal System	The Skeletal System	joints, synarthrosis, amphiarthrosis, diarthrosis
03-85B	03 The Skeletal System	The Skeletal System	joints, synarthrosis, amphiarthrosis, diarthrosis

03-86	03 The Skeletal System	The Skeletal System	flexion, extension, abduction, adduction, rotation
03-87	03 The Skeletal System	The Skeletal System	osteoporosis, bone loss, menopause
03-88	03 The Skeletal System	The Skeletal System	fractures, greenstick, closed, open, impacted, comminuted, spiral, depressed, Colles'
03-89	03 The Skeletal System	The Skeletal System	osteoporosis, bone mass, fractures, menopause
03-90	03 The Skeletal System	The Skeletal System	rheumatoid arthritis, autoimmune disorder, synovial membrane
03-91	03 The Skeletal System	The Skeletal System	kyphosis, lordosis, scoliosis, developmental disorders of the spine
03-92	03 The Skeletal System	The Skeletal System	botulism, compound fracture, ulna, skin infection
04-01	04 Muscles and Joints	Muscles and Joints	muscle, origin, insertion
04-02	04 Muscles and Joints	Muscles and Joints	buccinator, orbicularis oris, masseter, sternomastoid, trapezius, levator scapulae, platysma
04-03	04 Muscles and Joints	Muscles and Joints	upper extremities, deltoid, pectoralis major, serratus anterior, external oblique, flexors, temporal, frontalis, orbicularis oculi, upper extremities, masseter, sternomastoid, trapezius, biceps brachii, rectus abdominis, linea alba, extensors
04-04	04 Muscles and Joints	Muscles and Joints	trapezius, occipitalis, sternomastoid, deltoid, extensors, latissimus dorsi, triceps brachii
04-05	04 Muscles and Joints	Muscles and Joints	sartorius, vastus lateralis, patella, tibialis anterior, peroneus longus, tibia, soleus, vastus medialis, rectus femoris, adductors

04-06	04 Muscles and Joints	Muscles and Joints	gluteus medius, gluteus maximus, adductor magnus, gracilis, gastrocnemius peroneus longus, peroneus brevis, hamstring, Achilles tendon, soleus
04-07	04 Muscles and Joints	Muscles and Joints	rotator cuff, bursa, shoulder
04-08	04 Muscles and Joints	Muscles and Joints	fibrous joint, sutures, cranium, skull
04-09	04 Muscles and Joints	Muscles and Joints	cartilaginous joint, symphysis pubis, pelvis
04-10	04 Muscles and Joints	Muscles and Joints	synovial joint, bursa, femur, patella, tibia
04-11	04 Muscles and Joints	Muscles and Joints	hinge joint, elbow, humerus, ulna
04-12	04 Muscles and Joints	Muscles and Joints	ball-and-socket joint, ilium, femur, hip, pelvis
04-13A	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction
04-13B	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction
04-13C	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction
04-13D	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction
04-13E	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction

04-13F	04 Muscles and Joints	Muscles and Joints	flexion, extension, abduction, adduction, rotation, pronation, supination, plantar flexion, dorsiflexion, circumduction
04-14	04 Muscles and Joints	Muscles and Joints	bunion, foot, metatarsal joint
04-15	04 Muscles and Joints	Muscles and Joints	ganglion, wrist, cystic tumor
04-16	04 Muscles and Joints	Muscles and Joints	herniated disk, vertebra, spinal nerve root, bulging nucleus
04-17	04 Muscles and Joints	Muscles and Joints	osteoarthritis, knee joint, patella, cartilage
04-18	04 Muscles and Joints	Muscles and Joints	rheumatoid hand, swan-neck deformity, rheumatoid arthritis
04-19	04 Muscles and Joints	Muscles and Joints	butterfly rash, systemic lupus erythematosus, autoimmune disease
04-20	04 Muscles and Joints	Muscles and Joints	arthroscopy, knee, patella, arthroscope
04-21	04 Muscles and Joints	Muscles and Joints	arthroscopy, knee, patella, internal view
04-22	04 Muscles and Joints	Muscles and Joints	myasthenia gravis, muscle fatigue, synovial joint, articular cartilage, periosteum, synovial fluid
04-23	04 Muscles and Joints	Muscles and Joints	synovial joint, movement, flexion, extension, hyperextension, abduction, adduction, circumduction
04-24	04 Muscles and Joints	Muscles and Joints	synovial joint, pronation, supination, eversion, inversion, protraction, retraction, depression, elevation, dorsiflexion, plantar flexion
04-25	04 Muscles and Joints	Muscles and Joints	synovial joint, diarthroses, hinge joint, saddle joint, ball and socket joint, multiaxial joint, biaxial joint, uniaxial joint
04-26	04 Muscles and Joints	Muscles and Joints	uniaxial joint, hinge joint, knee, patella
04-27	04 Muscles and Joints	Muscles and Joints	skeletal muscle, fascia, epimysium, perimysium, endomysium
04-28	04 Muscles and Joints	Muscles and Joints	

04-29	04 Muscles and Joints	Muscles and Joints	skeletal muscle, potassium ions, sodium ions, nerve cell
04-30	04 Muscles and Joints	Muscles and Joints	muscle cell, actin myofilament, myosin myofilament
04-31	04 Muscles and Joints	Muscles and Joints	muscle cell, myosin, actin filament, contraction
04-32	04 Muscles and Joints	Muscles and Joints	sodium-potassium pump, muscle cell, ATP, ADP
04-33	04 Muscles and Joints	Muscles and Joints	superficial muscles, deltoid, pectoralis major, sartorius, peroneus longus, patella, sternocleidomastoid, trapezius, rectus abdominis
04-34A	04 Muscles and Joints	Muscles and Joints	superficial muscles, deltoid, gastrocnemius, peroneus longus, gluteus maximus, sternocleidomastoid, trapezius, hamstrings
04-34B	04 Muscles and Joints	Muscles and Joints	superficial muscles, deltoid, gastrocnemius, peroneus longus, gluteus maximus, sternocleidomastoid, trapezius, hamstrings
04-35	04 Muscles and Joints	Muscles and Joints	frontalis, orbicularis oculi, platysma, masseter, buccinator, orbicularis oculi, temporalis, occipitalis
04-36	04 Muscles and Joints	Muscles and Joints	frontalis, orbicularis oculi, platysma, masseter, buccinator, orbicularis oris, sternocleidomastoid
04-37	04 Muscles and Joints	Muscles and Joints	deltoid, triceps brachii, brachioradialis, trapezius, pectoralis major
04-38	04 Muscles and Joints	Muscles and Joints	rectus femoris, vastus lateralis, gastrocnemius, soleus, biceps femoris, vastus medialis

04-39A	04 Muscles and Joints	Muscles and Joints	voluntary muscle cells, striated muscle cells, myofibrils, nucleus
04-39B	04 Muscles and Joints	Muscles and Joints	voluntary muscle cells, striated muscle cells, myofibrils, nucleus
04-40A	04 Muscles and Joints	Muscles and Joints	involuntary muscle cell, smooth muscle cell, nucleus
04-40B	04 Muscles and Joints	Muscles and Joints	involuntary muscle cell, smooth muscle cell, nucleus
04-41A	04 Muscles and Joints	Muscles and Joints	cardiac muscle cell, nucleus, striations

04-41B	04 Muscles and Joints	Muscles and Joints	cardiac muscle cell, nucleus, striations
04-42	04 Muscles and Joints	Muscles and Joints	prime mover, antagonistic muscles, extension, flexion
04-43	04 Muscles and Joints	Muscles and Joints	neuron, dendrite, axon, Schwann cell, neuromuscular junction
04-44	04 Muscles and Joints	Muscles and Joints	principal skeletal muscles, biceps, vastus lateralis, quadriceps, deltoid
04-45	04 Muscles and Joints	Muscles and Joints	trapezius, occipitalis, sternomastoid, deltoid, extensors, latissimus dorsi, triceps brachii, gluteus maximus, hamstrings
04-46	04 Muscles and Joints	Muscles and Joints	masseter, sternocleidomastoid, trapezius, platysma, frontalis, zygomaticus major
04-47	04 Muscles and Joints	Muscles and Joints	deltoid, triceps brachii, brachioradialis, extensors, flexors
04-48	04 Muscles and Joints	Muscles and Joints	pectoralis major, serratus anterior, diaphragm, internal abdominal oblique, rectus abdominis, transverse abdominis, external abdominal oblique
04-49	04 Muscles and Joints	Muscles and Joints	gluteus medius, gluteus maximus, tensor fasciae, sartorius, vastus lateralis, rectus femoris, biceps femoris, gastrocnemius, soleus, peroneus longus, tibialis anterior
04-50	04 Muscles and Joints	Muscles and Joints	tennis elbow, lateral epicondylitis, repetitive injury
05-01	05 The Nervous System	The Nervous System	nervous system, central nervous system, somatic nervous system, peripheral nervous system, autonomic nervous system

05-02	05 The Nervous System	The Nervous System	neuron, dendrites, nucleus, synapse, nerve cell
05-03	05 The Nervous System	The Nervous System	neuroglia cells, oligodendroglia, ependymal cell, astrocyte, capillary, microglial cell
05-04	05 The Nervous System	The Nervous System	meninges, cerebrospinal fluid, CSF, meninges, arachnoid villi, dura mater, arachnoid membrane, pia mater
05-05	05 The Nervous System	The Nervous System	brain, front view, cerebral hemispheres, sulci, gyri, cerebrum, longitudinal fissure, cerebellum, brain stem, spinal cord
05-06	05 The Nervous System	The Nervous System	hypothalamus, midbrain, thalamus, pons, medulla oblongata, spinal cord
05-07	05 The Nervous System	The Nervous System	shingles, chickenpox, herpes zoster
05-08	05 The Nervous System	The Nervous System	meningocele, spinal column, hernia
05-09	05 The Nervous System	The Nervous System	meningomyelocele, vertebral column, spinal cord hernia
05-10	05 The Nervous System	The Nervous System	spina bifida occulta, spinal column, congenital deformity
05-11	05 The Nervous System	The Nervous System	coronal image, abdomen, MRI
05-12	05 The Nervous System	The Nervous System	PET scan, cocaine, dopamine-uptake sites
05-13	05 The Nervous System	The Nervous System	central nervous system, peripheral nervous system, peripheral nerves, sensory receptors, brain, spinal cord
05-14A	05 The Nervous System	The Nervous System	cerebral lobes, vision, hearing, sensory, motor, emotions, personality, speech

05-14B	05 The Nervous System	The Nervous System	cerebral lobes, vision, hearing, sensory, motor, emotions, personality, speech
05-15	05 The Nervous System	The Nervous System	spinal nerves, dermatomes, sensory impulses
05-16	05 The Nervous System	The Nervous System	CVA, cerebrovascular accident, stroke, arteriosclerosis
05-17	05 The Nervous System	The Nervous System	CVA, cerebrovascular accident, stroke
05-18	05 The Nervous System	The Nervous System	Bell's palsy, facial nerve, seventh cranial nerve, unilateral paralysis
05-19	05 The Nervous System	The Nervous System	coup lesion, contracoup lesion, concussion, contusion, head trauma
05-20	05 The Nervous System	The Nervous System	skull fracture, linear fracture, depressed fracture, comminuted fracture, basilar fracture
05-21	05 The Nervous System	The Nervous System	epidural hematoma, subdural hematoma, head injury, meninges
05-22	05 The Nervous System	The Nervous System	spinal cord injury, quadriplegia, paraplegia
05-23	05 The Nervous System	The Nervous System	Parkinson's disease, gait, tremor, dopamine
05-24	05 The Nervous System	The Nervous System	central nervous system, peripheral nervous system, peripheral nerves, sensory receptors, brain, spinal cord
05-25	05 The Nervous System	The Nervous System	neuroglia, astrocytes, oligodendroglia, microglia, ependymal cells
05-26	05 The Nervous System	The Nervous System	structural neurons, cell body, dendrites, axon
05-27	05 The Nervous System	The Nervous System	axon, peripheral nervous system, Schwann cells, nodes of Ranvier, myelin
05-28	05 The Nervous System	The Nervous System	sodium-potassium pump, nerve cell, nerve impulse, ions
05-29	05 The Nervous System	The Nervous System	nerve fiber, nerve impulse, nerve cells, action potential, repolarization

05-30	05 The Nervous System	The Nervous System	neurotransmitter, presynaptic neuron, synaptic cleft, nerve impulse
05-31	05 The Nervous System	The Nervous System	knee-jerk reflex, reflex arc, central nervous system, involuntary reaction
05-32	05 The Nervous System	The Nervous System	meninges, spinal cord, white matter, gray matter, dura mater, pia mater, arachnoid mater, spinal nerve, ganglion
05-33	05 The Nervous System	The Nervous System	cervical spinal nerves, thoracic spinal nerves, lumbar spinal nerves, sacral spinal nerves, dura mater, conus medullaris, cauda equina, cervical plexus, brachial, lumbar plexus, sacral plexus
05-34	05 The Nervous System	The Nervous System	brain, cerebrum, thalamus, hypothalamus, pons, medulla oblongata, spinal cord, cerebellum
05-35	05 The Nervous System	The Nervous System	ventricles, cranial meninges, cerebrospinal fluid
05-36	05 The Nervous System	The Nervous System	cerebrum, cerebellum, brainstem, hearing, vision, speech, emotions, personality
05-37	05 The Nervous System	The Nervous System	cerebral hemispheres, corpus callosum, sulci, gray matter, white matter, cerebrum thalamus
05-38	05 The Nervous System	The Nervous System	nerve pathways, parasympathetic division, autonomic nervous system, physical activity
05-39	05 The Nervous System	The Nervous System	nerve pathways, sympathetic division, autonomic nervous system, stress

05-40	05 The Nervous System	The Nervous System	cranial nerves, oculomotor nerve, trochlear nerve, abducens nerve, glossopharyngeal nerve, vagus nerve, accessory nerve, olfactory nerve, optic nerve, trigeminal nerve, facial nerve, vestibulocochlear nerve, hypoglossal nerve
05-41	05 The Nervous System	The Nervous System	olfactory area, superior nasal conchae, columnar epithelial cells, olfactory receptor cells, cilia, smell
05-42	05 The Nervous System	The Nervous System	taste bud, papillae, sweet, sour, salt, brine
05-43	05 The Nervous System	The Nervous System	eye, retina, optic nerve, sclera, fovea centralis, iris, pupil, cornea, lens
05-44	05 The Nervous System	The Nervous System	retina, vision, rods, cones, ganglion cell, neuron
05-45	05 The Nervous System	The Nervous System	ear, auricle, external auditory canal, malleus, incus, stapes, cochlea, oval window, semicircular canals, vestibulocochlear nerve, eustachian tube
05-46	05 The Nervous System	The Nervous System	membrane potential, resting potential, repolarization
05-47A	05 The Nervous System	The Nervous System	cerebrum, diencephalon, cerebellum, brain stem, lobes, medulla oblongata, thalamus, hypothalamus

05-47B	05 The Nervous System	The Nervous System	cerebrum, diencephalon, cerebellum, brain stem, lobes, medulla oblongata, thalamus, hypothalamus
05-48	05 The Nervous System	The Nervous System	meninges, meningitis, cerebrospinal fluid
05-49	05 The Nervous System	The Nervous System	cerebrospinal fluid, cerebral aqueduct, straight sinus, ventricles
05-50	05 The Nervous System	The Nervous System	medulla oblongata, cerebellum, lobes, fissures, sulci, gyri, cerebral cortex
05-51	05 The Nervous System	The Nervous System	brain function, vision, sensory, motor functions, emotions, hearing, reflexes
05-52	05 The Nervous System	The Nervous System	cingulate gyrus, fornix, thalamus, hippocampus, hypothalamus, amygdala, pituitary gland, mammillary body
05-53	05 The Nervous System	The Nervous System	diencephalon, mid brain, pons, medulla, cerebellar peduncles, pineal body, thalamus, trochlear nerve
05-54A	05 The Nervous System	The Nervous System	spinal cord, gray matter, white matter, dorsal root fibers, reticular process, nucleus dorsalis, ventral foot fibers, posterior funiculus, posterior gray horn, lateral gray horn, anterior gray horn
05-54B	05 The Nervous System	The Nervous System	spinal cord, gray matter, white matter, dorsal root fibers, reticular process, nucleus dorsalis, ventral foot fibers, posterior funiculus, posterior gray horn, lateral gray horn, anterior gray horn
05-55	05 The Nervous System	The Nervous System	peripheral nervous system, central nervous system, involuntary
05-56	05 The Nervous System	The Nervous System	spinal nerves, plexus, conus medullaris, cauda equina, dura mater

05-57	05 The Nervous System	The Nervous System	sympathetic division, autonomic nervous system, parasympathetic nervous system, emotion
05-58	05 The Nervous System	The Nervous System	reflex, patellar tendon, knee-jerk reflex, stimulus, receptors
05-59	05 The Nervous System	The Nervous System	concussion, head injury, loss of consciousness
05-60	05 The Nervous System	The Nervous System	contusion, head injury, hemorrhaging, brain
05-61	05 The Nervous System	The Nervous System	epidural hematoma, head injury, meningeal artery
05-62	05 The Nervous System	The Nervous System	AIDS, cryptococcosis, lung disease, fungal meningitis
05-63	05 The Nervous System	The Nervous System	neuron, dendrites, axon, , Guillain-Barre syndrome
05-64A	05 The Nervous System	The Nervous System	hydrocephalus, shunt, ventriculoatrial shunt, ventriculoperitoneal shunt
05-64B	05 The Nervous System	The Nervous System	hydrocephalus, shunt, ventriculoatrial shunt, ventriculoperitoneal shunt
05-65	05 The Nervous System	The Nervous System	pneumococcal meningitis, meninges, Streptococcus pneumoniae bacteria
05-66	05 The Nervous System	The Nervous System	rabies, rhabdovirus, encephalitis
05-67	05 The Nervous System	The Nervous System	subdural hematoma, blunt force trauma, shaken baby syndrome
06-01	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood, formed elements, erythrocytes, neutrophil, eosinophil, basophil, thrombocytes, platelets, monocyte, lymphocyte, leukocytes
06-02	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, sickled red blood cells, sickle cell anemia

06-03	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph nodes, cervical nodes, submandibular nodes, inguinal nodes, right lymphatic duct, left internal jugular vein, thoracic duct, left subclavian vein, left brachiocephalic vein, thoracic duct
06-04	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	hypersensitive reaction
06-05	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	hypersensitive reaction
06-06	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	hypersensitive reaction
06-07	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	Kaposi's sarcoma, AIDS, HIV, herpes virus
06-08	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	immunity, immune system, defense mechanisms
06-09	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	inflammation, cellular response, vascular response, tissue injury
06-10	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	immune system, tonsils, adenoids, lymphatic vessels, bone marrow, lymph nodes, thymus, skin, spleen, appendix, Peyer's patch
06-11	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	immune diseases, hypersensitivity, immune deficiency, allergies, autoimmunity, isoimmunity, AIDS
06-12	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	asthma attack, bronchospasm, triggers
06-13	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	urticaria, hives, nettle rash, allergic reaction
06-14	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	autoimmune disease, rheumatoid arthritis, connective tissue
06-15	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	autoimmune disease, rheumatoid arthritis, connective tissue
06-16	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	autoimmune disease, rheumatoid arthritis, connective tissue

06-17	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood types, type A, type B, type AB, type O
06-18	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood types, type A, type B, type AB, type O, Rh factor, inheritance patterns
06-19	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	AIDS, lymphoma, dementia, Kaposi's sarcoma, pneumonia
06-20	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	sickle cell anemia, sickled erythrocytes, red blood cells
06-21	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	multiple myeloma, B lymphocytes, neoplasm of plasma cells, anemia, leukocytopenia, thrombocytopenia
06-22	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymphatic system, lymph vessels, lymph ducts, lymph nodes
06-23	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph vessels, blood vessels, lymph, capillaries
06-24	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, white blood cells, platelets, leukocytes, basophil, neutrophil, eosinophil, lymphocyte, monocyte
06-25	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	hematopoiesis, stem cells, hematocytoblasts, red bone marrow, blood, formation of blood cells
06-26	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood cells, life span, erythrocyte, neutrophils, eosinophil, basophil, monocyte, B lymphocyte, T lymphocyte, platelets
06-27	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood clotting, hemorrhage, platelets, thromboplastin, prothrombin, thrombin, fibrinogen, fibrin, red cells
06-28	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	tonsils, lymph vessels, thymus, spleen, Peyer's patches, small intestine, lymph nodes
06-29	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph node, lymphatic vessels, lymph flow, blood flow

06-30	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph capillaries, tissue cells, blood vessels, interstitial fluid
06-31	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph node, lymphocytes, neutrophil, plasma cell, macrophage
06-32	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph node, lymphocyte, germinal center, trabeculae, lymph vessel
06-33	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymphatic vessels, lymphatic trunks, lymphatic ducts
06-34	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	thoracic duct, right lymphatic duct, subclavian veins, lymphatic trunk
06-35	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	spleen, hilus, phagocytosis, platelets, red blood cells
06-36	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	defense mechanisms, phagocytes, lymphocytes, plasma cells, antigens
06-37	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, white blood cells, platelets, leukocytes, basophil, neutrophil, eosinophil, lymphocyte, monocyte
06-38	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	inflammation, cellular response, vascular response, tissue injury
06-39	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	serotonin, thromboplastin, prothrombin, thrombin, fibrinogen, fibrin, clot
06-40	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph, lymph vessels, lymph ducts, circulation
06-41	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymph nodes, lymph vessels, parotid lymph glands, occipital lymph nodes, cervical lymph nodes, mandibular lymph nodes
06-42	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	scleroderma, Raynaud's, thickening of the skin, autoimmunity

06-43	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymphocyte, T4 cells, HIV, AIDS, opportunistic infection
06-44A	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, sickle shaped red blood cells, sickle cell anemia, blood disorder
06-44B	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, sickle shaped red blood cells, sickle cell anemia, blood disorder
06-45	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood disorder, sickle cell anemia, physiological effects
06-46	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood, formed elements, erythrocytes, neutrophil, eosinophil, basophil, thrombocytes, platelets, monocyte, lymphocyte, leukocytes
06-47	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	blood-borne illness, Trypanosoma brucei gambiense, Trypanosoma brucei rhodesiense, sleeping sickness
06-48	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	immune system, antigens, phagocytes, lymphocytes, antibodies
06-49	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	lymphadenitis, cellulitis, bacterial infection
06-50	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	red blood cells, white blood cells, erythrocytes, leukocytes
06-51	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	sickle cell anemia, chronic anemia, red blood cells
06-52	06 The Blood and Lymphatic Systems	The Blood and Lymphatic Systems	gangrene, meningococemia, blood disease
07-01	07 The Cardiovascular System	The Cardiovascular System	heart, cardiovascular system, thorax
07-02	07 The Cardiovascular System	The Cardiovascular System	heart, cardiovascular system, endocardium, epicardium, myocardium, pericardium
07-03	07 The Cardiovascular System	The Cardiovascular System	blood flow, heart, cardiovascular system, pulmonary veins, lungs

07-04	07 The Cardiovascular System	The Cardiovascular System	pulmonary circulation, lungs, systemic circulation, heart, cardiovascular system
07-05	07 The Cardiovascular System	The Cardiovascular System	heart, coronary arteries, aorta, pulmonary artery, circumflex artery, left coronary artery, left anterior descending artery, right coronary artery
07-06	07 The Cardiovascular System	The Cardiovascular System	heart, conduction system, sinoatrial node, pacemaker, right atrium, atrioventricular node, Purkinje fibers, myocardium, bundle of His
07-07	07 The Cardiovascular System	The Cardiovascular System	balloon angioplasty, subclavian artery, heart disease
07-08	07 The Cardiovascular System	The Cardiovascular System	coronary atherectomy, plaque, coronary artery disease
07-09	07 The Cardiovascular System	The Cardiovascular System	bypass surgery, coronary artery disease, cardiovascular system
07-10	07 The Cardiovascular System	The Cardiovascular System	abdominal aneurysm, surgery, AAA
07-11	07 The Cardiovascular System	The Cardiovascular System	peripheral arterial occlusive disease, popliteal artery, anterior tibial artery, aorta, iliac artery, inguinal ligament artery, internal iliac (hypogastric) artery, superficial femoral artery, peroneal artery, posterior tibial artery, dorsalis pedis artery
07-12	07 The Cardiovascular System	The Cardiovascular System	thrombus, phlebitis, deep vein thrombosis
07-13	07 The Cardiovascular System	The Cardiovascular System	varicose veins, venous stasis, legs
07-14	07 The Cardiovascular System	The Cardiovascular System	aorta, coarctation, heart
07-15	07 The Cardiovascular System	The Cardiovascular System	patent ductus arteriosus, heart, blood flow
07-16	07 The Cardiovascular System	The Cardiovascular System	tetralogy of Fallot, heart defect, congenital anomaly, pulmonary stenosis

07-17	07 The Cardiovascular System	The Cardiovascular System	pulse points, temporal, carotid, brachial,
07-18	07 The Cardiovascular System	The Cardiovascular System	radial, femoral, popliteal, dorsalis pedis EKG, chest leads, echocardiogram
07-19	07 The Cardiovascular System	The Cardiovascular System	stress test, heart function, cardiovascular system
07-20	07 The Cardiovascular System	The Cardiovascular System	Holter monitor, heart, cardiac arrhythmias
07-21	07 The Cardiovascular System	The Cardiovascular System	heart valves, rheumatic fever, streptococcal infection
07-22	07 The Cardiovascular System	The Cardiovascular System	heart, chambers, atria, ventricles, aorta, pulmonary artery
07-23	07 The Cardiovascular System	The Cardiovascular System	heart, conduction system, sinoatrial node, atrioventricular node, bundle of His, Purkinje fibers
07-24	07 The Cardiovascular System	The Cardiovascular System	pulse points, temporal, carotid, brachial,
07-25	07 The Cardiovascular System	The Cardiovascular System	radial, femoral, popliteal, dorsalis pedis circulatory system, arteries, veins
07-26	07 The Cardiovascular System	The Cardiovascular System	cardiac catheterization, cardiac output, invasive procedure, oxygen content, blood pressure
07-27	07 The Cardiovascular System	The Cardiovascular System	arteriogram, angiocardiograms, venogram, x-ray
07-28	07 The Cardiovascular System	The Cardiovascular System	cardiovascular disease, high blood pressure, coronary artery disease, rheumatic heart disease, cancer, HIV, AIDS
07-29	07 The Cardiovascular System	The Cardiovascular System	blood pressure, systolic pressure, diastolic pressure
07-30	07 The Cardiovascular System	The Cardiovascular System	atherosclerosis, arterial lumen, coronary arteries, myocardial ischemia, angina pectoris, myocardial infarction, coronary artery disease

07-31	07 The Cardiovascular System	The Cardiovascular System	atherosclerosis, arteries, blood pressure, coronary arteries, cerebral arteries, aorta, peripheral arteries
07-32	07 The Cardiovascular System	The Cardiovascular System	aneurysm, saccular, fusiform, dissecting abdominal aneurysm, surgery, AAA, surgical resection, grafting
07-33	07 The Cardiovascular System	The Cardiovascular System	coronary artery angioplasty, coronary artery disease, catheter
07-34	07 The Cardiovascular System	The Cardiovascular System	
07-35	07 The Cardiovascular System	The Cardiovascular System	coronary artery bypass graft, CABG, bypass surgery, coronary artery disease
07-36	07 The Cardiovascular System	The Cardiovascular System	angina pectoris, chest pain, myocardial infarction, heart attack
07-37	07 The Cardiovascular System	The Cardiovascular System	myocardial infarction, ischemia, heart attack
07-38	07 The Cardiovascular System	The Cardiovascular System	heart failure, edema, enlarged heart, congestion
07-39	07 The Cardiovascular System	The Cardiovascular System	heart, mediastinum, lungs, aorta, atria, ventricles, diaphragm
07-40	07 The Cardiovascular System	The Cardiovascular System	pericardial sac, epicardium, pericardium, myocardium, endocardium
07-41	07 The Cardiovascular System	The Cardiovascular System	myocardium, endocardium, myocardium, epicardium, heart
07-42	07 The Cardiovascular System	The Cardiovascular System	heart, chambers, valves, septum, chordae tendineae, heart vessels, bicuspid valve, tricuspid, semilunar valve
07-43	07 The Cardiovascular System	The Cardiovascular System	blood flow, pulmonary circulation, systemic circulation, oxygen-rich blood, oxygen-poor blood
07-44	07 The Cardiovascular System	The Cardiovascular System	sinoatrial node, atrioventricular node, Purkinje's fibers, conduction system, heart

07-45	07 The Cardiovascular System	The Cardiovascular System	arteries, veins, tunica intima, tunica media, tunica adventitia, capillary
07-46	07 The Cardiovascular System	The Cardiovascular System	arteries, systemic circulation, aorta
07-47	07 The Cardiovascular System	The Cardiovascular System	veins, superior vena cava, inferior vena cava, circulation
07-48	07 The Cardiovascular System	The Cardiovascular System	circulation, arteries, veins, blood
07-49	07 The Cardiovascular System	The Cardiovascular System	pulmonary circulation, lungs, systemic circulation, heart, cardiovascular system
07-50A	07 The Cardiovascular System	The Cardiovascular System	heart, ventricles, valves, atria, vena cava, pulmonary artery, aorta
07-50B	07 The Cardiovascular System	The Cardiovascular System	heart, ventricles, valves, atria, vena cava, pulmonary artery, aorta
07-51	07 The Cardiovascular System	The Cardiovascular System	heart, aorta, vena cava, atria, ventricles, semilunar valves, bicuspid valve, tricuspid
07-52	07 The Cardiovascular System	The Cardiovascular System	right heart, left heart, oxygenated blood, deoxygenated blood, pump
07-53	07 The Cardiovascular System	The Cardiovascular System	depolarization, repolarization, contraction, systole, diastole, cardiac cycle
07-54	07 The Cardiovascular System	The Cardiovascular System	cardiac catheterization, femoral artery, stress test
07-55	07 The Cardiovascular System	The Cardiovascular System	angioplasty, balloon surgery, clogged vessels, coronary artery
07-56	07 The Cardiovascular System	The Cardiovascular System	coronary artery, bypass surgery, heart bypass
07-57	07 The Cardiovascular System	The Cardiovascular System	pacemaker, irregular heartbeat, bradycardia
07-58	07 The Cardiovascular System	The Cardiovascular System	cardiopulmonary circulation, deoxygenated blood, aorta, vena cava, pulmonary artery
07-59	07 The Cardiovascular System	The Cardiovascular System	oxygenated blood, arteries, capillaries, venous system

07-60	07 The Cardiovascular System	The Cardiovascular System	blood flow, aorta, systemic circulation, aorta, vena cava
07-61	07 The Cardiovascular System	The Cardiovascular System	portal circulation, systemic circulation, pulmonary circulation
07-62	07 The Cardiovascular System	The Cardiovascular System	ascending aorta, abdominal aorta, arch of aorta, thoracic aorta, arteries, oxygenated blood
07-63	07 The Cardiovascular System	The Cardiovascular System	blood vessels, arteries, veins, lumen, tunica interna, tunica media, tunica externa
07-64	07 The Cardiovascular System	The Cardiovascular System	superior vena cava, inferior vena cava, veins, deoxygenated blood
07-65	07 The Cardiovascular System	The Cardiovascular System	veins, valves, backflow, reflux, capillaries
07-66	07 The Cardiovascular System	The Cardiovascular System	pulse points, temporal, carotid, brachial, radial, femoral, popliteal, dorsalis pedis
07-67	07 The Cardiovascular System	The Cardiovascular System	atherosclerosis, stroke, angina, hypertension, peripheral vascular disease
07-68	07 The Cardiovascular System	The Cardiovascular System	stroke, cerebrovascular accident, blood clot
07-69	07 The Cardiovascular System	The Cardiovascular System	aorta, aneurysm, weak blood vessel, artery, ruptured artery
07-70	07 The Cardiovascular System	The Cardiovascular System	deep veins, arteries, superficial veins, arteritis
07-71	07 The Cardiovascular System	The Cardiovascular System	cardiopulmonary circulation, heart, lungs
07-72	07 The Cardiovascular System	The Cardiovascular System	arteries, coronary artery disease, brain, heart
07-73	07 The Cardiovascular System	The Cardiovascular System	stroke, cerebrovascular accident, brain
07-74	07 The Cardiovascular System	The Cardiovascular System	stroke, cerebrovascular accident, brain
07-75	07 The Cardiovascular System	The Cardiovascular System	heart, superior vena cava, aorta, ventricles, atria

07-76	07 The Cardiovascular System	The Cardiovascular System	veins, deep veins, superficial veins
07-77	07 The Cardiovascular System	The Cardiovascular System	atherosclerosis, aorta, heart disease
07-78	07 The Cardiovascular System	The Cardiovascular System	congestive heart failure, x-ray, heart disease
07-79	07 The Cardiovascular System	The Cardiovascular System	bacterial infection, heart disease, heart respiratory system, nasal cavity, pharynx, esophagus, lungs, bronchi, bronchioles, alveoli
08-01	08 The Respiratory System	The Respiratory System	lungs, diaphragm, bronchus, parietal pleura, intercostal muscle
08-02	08 The Respiratory System	The Respiratory System	diaphragm, inhalation, expiration, respiration
08-03	08 The Respiratory System	The Respiratory System	light palpation, respiration, lungs
08-04	08 The Respiratory System	The Respiratory System	auscultation, lungs, respiration, stethoscope
08-05	08 The Respiratory System	The Respiratory System	percussion, lungs, respiration
08-06	08 The Respiratory System	The Respiratory System	streptococcal pharyngitis, strep infection, sore throat
08-07	08 The Respiratory System	The Respiratory System	emphysema, smoking, lungs, alveoli
08-08	08 The Respiratory System	The Respiratory System	
08-09	08 The Respiratory System	The Respiratory System	pleural effusion, fluid in lungs, respiration
08-10	08 The Respiratory System	The Respiratory System	pneumothorax, lungs, respiration
08-11	08 The Respiratory System	The Respiratory System	fiber optic bronchoscopy, lungs, bronchoscope, trachea, radiopaque dye
08-12	08 The Respiratory System	The Respiratory System	chest x-ray, posteroanterior view, chest, lungs
08-13	08 The Respiratory System	The Respiratory System	thoracentesis, aspiration, lungs
08-14	08 The Respiratory System	The Respiratory System	respiratory system, lungs, diaphragm
08-15	08 The Respiratory System	The Respiratory System	terminal bronchiole, alveoli, lungs, upper respiratory system, lower respiratory system

08-16	08 The Respiratory System	The Respiratory System	gas exchange, lungs, external respiration, internal respiration
08-17	08 The Respiratory System	The Respiratory System	clubbing, chronic respiratory conditions, barrel chest, poor circulation, oxygenation
08-18	08 The Respiratory System	The Respiratory System	bronchoscopy, tissue biopsy, lung disease
08-19	08 The Respiratory System	The Respiratory System	spirometry, pulmonary function tests, volume, air flow
08-20	08 The Respiratory System	The Respiratory System	infectious diseases, upper respiratory infection, viral infection, influenza, pneumonia, bronchitis
08-21	08 The Respiratory System	The Respiratory System	alveoli, emphysema, smoking
08-22	08 The Respiratory System	The Respiratory System	emphysema, chronic inflammation, bronchioles, alveolar sacs, smoking
08-23	08 The Respiratory System	The Respiratory System	pneumonia, alveoli, bronchioles
08-24	08 The Respiratory System	The Respiratory System	pulmonary abscess, lung abscess, bacterial pneumonia
08-25	08 The Respiratory System	The Respiratory System	tuberculosis, tubercules, lungs
08-26	08 The Respiratory System	The Respiratory System	pneumothorax, lungs, respiration
08-27	08 The Respiratory System	The Respiratory System	pulmonary embolism, blood clot, thrombus, lungs
08-28	08 The Respiratory System	The Respiratory System	respiratory ventilator, pulmonary edema, congestive heart failure, dyspnea, orthopnea
08-29	08 The Respiratory System	The Respiratory System	lung, nasal cavity, external naris, pharynx, larynx, trachea, bronchus, alveoli, bronchiole, diaphragm
08-30	08 The Respiratory System	The Respiratory System	nasal cavity, pharynx, sagittal view
08-31	08 The Respiratory System	The Respiratory System	larynx, voice box, epiglottis, trachea, cricoid cartilage, corniculate cartilage, arytenoid cartilage, vocal cords, thyroid cartilage

08-32	08 The Respiratory System	The Respiratory System	trachea, bronchi, bronchioles, bronchial tree, alveolar duct, alveoli
08-33	08 The Respiratory System	The Respiratory System	lungs, bronchi, trachea, lobes
08-34	08 The Respiratory System	The Respiratory System	lung, lobule, bronchiole, pleura, alveoli
08-35	08 The Respiratory System	The Respiratory System	lung, alveolus, bronchioles
08-36	08 The Respiratory System	The Respiratory System	ventilation, inhalation, exhalation
08-37	08 The Respiratory System	The Respiratory System	respiratory pathway, oxygen, carbon dioxide
08-38	08 The Respiratory System	The Respiratory System	fetal pig, dissection, thoracic cavity
08-39	08 The Respiratory System	The Respiratory System	respiration, blood flow, lungs, external respiration, internal respiration
08-40	08 The Respiratory System	The Respiratory System	nasal cavity, pharynx, larynx, trachea, bronchial tree, bronchus, bronchiole, alveoli, external respiration
08-41	08 The Respiratory System	The Respiratory System	sinuses, frontal sinus, ethmoidal sinuses, sphenoidal sinuses, maxillary sinus, paranasal sinuses
08-42	08 The Respiratory System	The Respiratory System	pharynx, larynx, epiglottis, esophagus, trachea
08-43	08 The Respiratory System	The Respiratory System	larynx, trachea, bronchial tree, bronchiole, alveoli
08-44A	08 The Respiratory System	The Respiratory System	trachea, lung, base, apex, lobes
08-44B	08 The Respiratory System	The Respiratory System	trachea, lung, base, apex, lobes
08-45	08 The Respiratory System	The Respiratory System	breathing, inhalation, exhalation, diaphragm, intercostal muscles
08-46	08 The Respiratory System	The Respiratory System	medulla oblongata, respiratory center, inspiration, expiration
08-47	08 The Respiratory System	The Respiratory System	lung capacity, lung volume, spirometer, vital lung capacity

08-48	08 The Respiratory System	The Respiratory System	Bacillus anthrax, anthrax, bioterrorism
08-49	08 The Respiratory System	The Respiratory System	cutaneous anthrax, local infection, spores
08-50	08 The Respiratory System	The Respiratory System	larynx, stoma, tracheostomy, endotracheal intubation
08-51	08 The Respiratory System	The Respiratory System	lungs, black lung disease, coal worker, diseased lungs
08-52	08 The Respiratory System	The Respiratory System	flail chest, motor vehicle accident, falls, physical assault, osteoporosis
08-53	08 The Respiratory System	The Respiratory System	lobar pneumonia, alveoli, bacterial pneumonia, Streptococcus pneumonia
08-54	08 The Respiratory System	The Respiratory System	respiratory tract, lungs, trachea, esophagus
08-55	08 The Respiratory System	The Respiratory System	respiration, blood flow, lungs, external respiration, internal respiration
08-56	08 The Respiratory System	The Respiratory System	primary atypical pneumonia, Mycoplasma pneumoniae, walking pneumonia
08-57	08 The Respiratory System	The Respiratory System	sinuses, sinusitis, infection
08-58	08 The Respiratory System	The Respiratory System	white blood cell, phagocytosis, tuberculosis
08-59	08 The Respiratory System	The Respiratory System	alveoli, tapeworm, cyst, lungs
09-01	09 The Digestive System	The Digestive System	oral cavity, mouth, tongue, teeth, palatine tonsil, uvula, oropharynx, gingivae, papillae
09-02	09 The Digestive System	The Digestive System	stomach, esophagus, pyloric sphincter, fundus, pylorus, duodenum
09-03A	09 The Digestive System	The Digestive System	small intestine, large intestine, colon, rectum, anus
09-03B	09 The Digestive System	The Digestive System	small intestine, large intestine, colon, rectum, anus
09-04	09 The Digestive System	The Digestive System	liver, gallbladder, pancreas
09-05	09 The Digestive System	The Digestive System	primary teeth, deciduous teeth, baby teeth, dentition

09-06	09 The Digestive System	The Digestive System	permanent teeth, adult teeth, dentition
09-07	09 The Digestive System	The Digestive System	teeth, enamel, crown, neck, root, dentin, cementum
09-08	09 The Digestive System	The Digestive System	aphthous stomatitis, thrush
09-09	09 The Digestive System	The Digestive System	diverticulitis, colon, diverticula
09-10	09 The Digestive System	The Digestive System	hiatal hernia, esophagus, diaphragm
09-11	09 The Digestive System	The Digestive System	intussusception, telescoped bowel, colon
09-12	09 The Digestive System	The Digestive System	oral leukoplakia, mucous membranes, white patches
09-13	09 The Digestive System	The Digestive System	thrush, candida albicans, creamy patches
09-14	09 The Digestive System	The Digestive System	volvulus, twisted bowel, bowel obstruction
09-15	09 The Digestive System	The Digestive System	hemocult test, occult blood, intestinal bleeding
09-16	09 The Digestive System	The Digestive System	cachexia, nutritional imbalance, malnutrition, eating disorder
09-17	09 The Digestive System	The Digestive System	gastrostomy, parenteral feeding, tube feeding, enteral feeding
09-18A	09 The Digestive System	The Digestive System	ulcer, appendix sinus, cystovaginal fistula
09-18B	09 The Digestive System	The Digestive System	ulcer, appendix sinus, cystovaginal fistula
09-19	09 The Digestive System	The Digestive System	tuberculosis, tubercles, lungs, skin test
09-20	09 The Digestive System	The Digestive System	digestive system, stomach, small intestine, large intestine, esophagus, rectum, anus
09-21	09 The Digestive System	The Digestive System	upper gastrointestinal system, pharynx, esophagus, stomach

09-22	09 The Digestive System	The Digestive System	lower gastrointestinal system, large intestine, small intestine, rectum, anus
09-23	09 The Digestive System	The Digestive System	esophagogastroduodenoscopy, EGD, gastroscopy, esophagus, stomach, duodenum
09-24	09 The Digestive System	The Digestive System	gingivitis, gum disease, oral health
09-25	09 The Digestive System	The Digestive System	hiatal hernia, esophagus, diaphragm
09-26	09 The Digestive System	The Digestive System	stomach, duodenum, gastric ulcer, duodenal ulcer, peptic ulcer
09-27	09 The Digestive System	The Digestive System	enteritis, Crohn's disease, inflammatory bowel disease
09-28	09 The Digestive System	The Digestive System	gastroenteritis, stomach, intestines
09-29	09 The Digestive System	The Digestive System	inguinal hernia, umbilical hernia, protrusion of an organ
09-30	09 The Digestive System	The Digestive System	appendix, inflammation, vermiform
09-31	09 The Digestive System	The Digestive System	colon, blockage, sigmoid colon
09-32A	09 The Digestive System	The Digestive System	volvulus, intussusception, telescoping, twisting, colon, bowel
09-32B	09 The Digestive System	The Digestive System	volvulus, intussusception, telescoping, twisting, colon, bowel
09-33	09 The Digestive System	The Digestive System	ulcerative colitis, autoimmune disorder, large intestine, colon
09-34	09 The Digestive System	The Digestive System	colostomy, ascending colostomy, transverse colostomy, descending
09-35	09 The Digestive System	The Digestive System	colostomy, sigmoid colostomy
09-36	09 The Digestive System	The Digestive System	diverticulosis, diverticulitis, colon
09-37	09 The Digestive System	The Digestive System	colon, large intestine, polyp, colon cancer
09-38	09 The Digestive System	The Digestive System	hemorrhoids, rectum, anus
09-39	09 The Digestive System	The Digestive System	liver, gallbladder, pancreas, cholangitis
09-40	09 The Digestive System	The Digestive System	liver, esophagus, stomach, intestines, blood supply
			esophagus, portal hypertension, liver, varicosities

09-41	09 The Digestive System	The Digestive System	cirrhosis of the liver, esophageal varices, splenomegaly, gynomastia, spider angiomas, mental confusion, edema, ascites, end-stage liver disease
09-42	09 The Digestive System	The Digestive System	cholelithiasis, liver, gallbladder, pancreas, gallstones
09-43	09 The Digestive System	The Digestive System	gastrointestinal tract, alimentary canal, esophagus, stomach, liver, gallbladder, pancreas, small intestine, large intestine, appendix, rectum, oral cavity, pharynx, salivary glands
09-44	09 The Digestive System	The Digestive System	tunics, alimentary tract, muscularis, mucosa, lumen, serosa, submucosal plexus, myenteric plexus
09-45	09 The Digestive System	The Digestive System	oral cavity, mouth, tongue, teeth, palatine tonsil, uvula, gingiva, labial frenulum, soft palate, hard palate
09-46	09 The Digestive System	The Digestive System	tongue, papillae, circumvallate papilla, filiform papilla, fungiform papilla, taste buds
09-47	09 The Digestive System	The Digestive System	sublingual gland, buccinator, submaxillary gland, masseter, parotid gland
09-48	09 The Digestive System	The Digestive System	deciduous teeth, permanent teeth, tooth, crown, enamel, dentin, pulp cavity, root canal, cementum
09-49	09 The Digestive System	The Digestive System	swallowing, esophagus, trachea, larynx, epiglottis, pharynx, soft palate, tongue, bolus
09-50	09 The Digestive System	The Digestive System	swallowing, bolus, stomach, peristalsis, lower esophageal sphincter

09-51	09 The Digestive System	The Digestive System	stomach, lower esophageal sphincter, fundus, cardia, antrum, pylorus, pyloric sphincter, duodenum, body, serosa
09-52	09 The Digestive System	The Digestive System	stomach, pancreas, duodenum, islets of Langerhans
09-53	09 The Digestive System	The Digestive System	liver, cystic duct, right hepatic duct, left hepatic duct, common hepatic duct, common bile duct, duodenum, pancreas
09-54	09 The Digestive System	The Digestive System	small intestine, liver, stomach, pancreas, duodenum, jejunum, ileum
09-55	09 The Digestive System	The Digestive System	small intestine, plicae circulares, villi, microvilli
09-56	09 The Digestive System	The Digestive System	large intestine, colon, ascending colon, transverse colon, descending colon, rectum anus, hepatic flexure, splenic flexure
09-57	09 The Digestive System	The Digestive System	fetal pig, dissection, digestive system
09-58	09 The Digestive System	The Digestive System	fetal pig, thoracic cavity, abdominal cavity, dissection
09-59	09 The Digestive System	The Digestive System	gallbladder, stomach, pancreas, small intestine, liver, esophagus
09-60	09 The Digestive System	The Digestive System	mouth, tongue, gingiva, frenulum, tonsils, uvula, palate
09-61	09 The Digestive System	The Digestive System	circumvallate papilla, filiform papilla, fungiform papilla, taste buds
09-62	09 The Digestive System	The Digestive System	deciduous teeth, permanent teeth, molars, canines, incisors, premolars
09-63	09 The Digestive System	The Digestive System	deciduous teeth, permanent teeth, baby teeth

09-64	09 The Digestive System	The Digestive System	crown, neck, root, enamel, dentin, gum, cementum
09-65A	09 The Digestive System	The Digestive System	stomach, fundus, body, cardiac, goblet cell, parietal cell, chief cell
09-65B	09 The Digestive System	The Digestive System	stomach, fundus, body, cardiac, goblet cell, parietal cell, chief cell
09-66	09 The Digestive System	The Digestive System	small intestine, duodenum, ileum, jejunum, large intestine
09-67	09 The Digestive System	The Digestive System	small intestine, absorption, plicae circulares, villi, capillaries
09-68	09 The Digestive System	The Digestive System	digestion, starch, fat, protein
09-69	09 The Digestive System	The Digestive System	liver, gallbladder, pancreas
09-70	09 The Digestive System	The Digestive System	large intestine, colon, ascending colon, transverse colon, descending colon, rectum anus, internal anal sphincter, external anal sphincter
09-71	09 The Digestive System	The Digestive System	mouth, salivary glands, esophagus, stomach, liver, gallbladder, pancreas, small intestine, large intestine
09-72	09 The Digestive System	The Digestive System	appendix, appendicitis, large intestine, cecum
09-73	09 The Digestive System	The Digestive System	diverticulosis, perforation, hemorrhage, large intestine
09-74	09 The Digestive System	The Digestive System	volvulus, intussusception, telescoping, twisting, colon, bowel
09-75	09 The Digestive System	The Digestive System	gallstones, cholecystitis, bile duct, obstruction
09-76	09 The Digestive System	The Digestive System	hemorrhoids, anus, rectal bleeding, rectum
09-77	09 The Digestive System	The Digestive System	hepatitis B, liver, serum hepatitis
09-78	09 The Digestive System	The Digestive System	colostomy, ascending colostomy, transverse colostomy, descending colostomy, sigmoid colostomy
09-79	09 The Digestive System	The Digestive System	salivary glands, epidemic parotitis, mumps virus

09-80	09 The Digestive System	The Digestive System	colon cancer, adenocarcinoma, large intestine
09-81	09 The Digestive System	The Digestive System	cholera, stool, rice water, dehydration
09-82	09 The Digestive System	The Digestive System	thrush, tongue, yeast infection
09-83	09 The Digestive System	The Digestive System	typhoid fever, cholecystitis, gallbladder, intestine
09-84	09 The Digestive System	The Digestive System	Giardia lamblia, parasite, fecal contamination, small intestine
09-85	09 The Digestive System	The Digestive System	strep throat, strep infection, sore throat
10-01	10 The Endocrine System	The Endocrine System	endocrine system, pineal gland, hypothalamus, pituitary, parathyroid gland
10-02	10 The Endocrine System	The Endocrine System	pituitary gland, hypothalamus, cerebellum, endocrine system, pons
10-03	10 The Endocrine System	The Endocrine System	pineal gland, hypothalamus, pituitary gland
10-04	10 The Endocrine System	The Endocrine System	thyroid gland, hyoid bone, isthmus, left lobe, right lobe, trachea
10-05	10 The Endocrine System	The Endocrine System	parathyroid glands, thyroid gland, parathyroid, trachea, esophagus
10-06	10 The Endocrine System	The Endocrine System	thymus gland, heart, endocrine function
10-07	10 The Endocrine System	The Endocrine System	adrenal gland, kidney, adrenal capsule, adrenal medulla, adrenal cortex
10-08	10 The Endocrine System	The Endocrine System	pancreas, liver, gallbladder, duodenum, ducts
10-09	10 The Endocrine System	The Endocrine System	ovaries, vagina, cervix, uterus
10-10	10 The Endocrine System	The Endocrine System	penis, scrotum, male reproductive system, vas deferens
10-11	10 The Endocrine System	The Endocrine System	dwarfism, congenital defect, endocrine dysfunction

10-12A	10 The Endocrine System	The Endocrine System	Cushing's syndrome, endocrine function, glucocorticoid
10-12B	10 The Endocrine System	The Endocrine System	Cushing's syndrome, endocrine function, glucocorticoid
10-13	10 The Endocrine System	The Endocrine System	insulin pump, diabetes, hyperglycemia
10-14	10 The Endocrine System	The Endocrine System	insulin pump, diabetes, hyperglycemia
10-15	10 The Endocrine System	The Endocrine System	endocrine system, pineal gland, hypothalamus, pituitary, parathyroid gland
10-16	10 The Endocrine System	The Endocrine System	giantism, gigantism, dwarfism, hyperpituitarism, pituitary gland
10-17	10 The Endocrine System	The Endocrine System	hypopituitarism, pituitary gland, tropic hormones, master gland
10-18	10 The Endocrine System	The Endocrine System	cretinism, congenital hypothyroidism, thyroid testing
10-19A	10 The Endocrine System	The Endocrine System	tetany, Chvostek's sign, Trousseau's sign, hypocalcemia, hypoparathyroidism
10-19B	10 The Endocrine System	The Endocrine System	tetany, Chvostek's sign, Trousseau's sign, hypocalcemia, hypoparathyroidism
10-20	10 The Endocrine System	The Endocrine System	blood sugar, insulin, diabetes mellitus
10-21	10 The Endocrine System	The Endocrine System	hypothalamus, pituitary gland, master gland, thyroid-stimulating hormone, prolactin, gonadotropic hormones, ACTH, growth hormone, anterior lobe
10-22	10 The Endocrine System	The Endocrine System	hypothalamus, pituitary gland, master gland, antidiuretic hormone, ADH, oxytocin, posterior lobe

10-23	10 The Endocrine System	The Endocrine System	pineal gland, thyroid, parathyroid glands, testis, ovary, pancreas, islets of Langerhans, thymus, pituitary gland, master gland, adrenal gland
10-24	10 The Endocrine System	The Endocrine System	thyroid gland, isthmus, left lobe, right lobe, hyoid bone, larynx
10-25	10 The Endocrine System	The Endocrine System	parathyroid glands, thyroid gland, trachea, esophagus, oxyphil cells, chief cells
10-26	10 The Endocrine System	The Endocrine System	adrenal gland, suprarenal glands, kidney, adrenalin, epinephrine, norepinephrine, noradrenalin
10-27	10 The Endocrine System	The Endocrine System	glucose, liver, ATP, glucagon, glycogen, amino acids
10-28	10 The Endocrine System	The Endocrine System	pineal gland, melatonin, serotonin, pituitary gland, corpus callosum, thalamus, cerebellum, hypothalamus
10-29	10 The Endocrine System	The Endocrine System	fetal pig, dissection, thyroid gland
10-30	10 The Endocrine System	The Endocrine System	fetal pig, dissection, thyroid gland, thymus gland
10-31	10 The Endocrine System	The Endocrine System	endocrine glands, pineal, pituitary, thyroid, thymus, adrenal gland, testis, ovary, pancreas
10-32	10 The Endocrine System	The Endocrine System	exocrine gland, endocrine gland, secretions, hormones
10-33	10 The Endocrine System	The Endocrine System	pituitary gland, master gland, brain, hypothalamus, thalamus
10-34	10 The Endocrine System	The Endocrine System	pituitary gland, master gland, oxytocin, ADH
10-35	10 The Endocrine System	The Endocrine System	pituitary gland, master gland, thyroid hormones, cortisol and aldosterone, testosterone, estrogen, progesterone, oxytocin, growth factor, ADH
10-36	10 The Endocrine System	The Endocrine System	thyroid gland, parathyroid, larynx, trachea

10-37	10 The Endocrine System	The Endocrine System	parathormone, calcitonin, calcium, parathyroid
10-38	10 The Endocrine System	The Endocrine System	adrenal glands, kidneys, gonads, testes, ovaries
10-39	10 The Endocrine System	The Endocrine System	islets of Langerhans, pancreas, insulin, glucagon
10-40	10 The Endocrine System	The Endocrine System	dwarfism, congenital defect, endocrine dysfunction
10-41	10 The Endocrine System	The Endocrine System	hyperthyroidism, thyroxin, goiter, exophthalmos
10-42	10 The Endocrine System	The Endocrine System	Cushing's syndrome, endocrine function, glucocorticoid
10-43	10 The Endocrine System	The Endocrine System	diabetes mellitus, perforating ulcer, poor circulation
10-44	10 The Endocrine System	The Endocrine System	Graves' disease, autoimmune disorder, thyroid gland
10-45	10 The Endocrine System	The Endocrine System	acromegaly, growth hormone, pituitary gland
11-01	11 The Special Senses	The Special Senses	eye, sclera, pupil, canthus, palpebral fissure, caruncle, iris
11-02	11 The Special Senses	The Special Senses	eye, cornea, lens, vitreous humor, iris, pupil, lateral view, retina, optic nerve
11-03	11 The Special Senses	The Special Senses	blepharoptosis, eye disorder, drooping eyelid
11-04	11 The Special Senses	The Special Senses	cataract, eye disorder, blindness
11-05	11 The Special Senses	The Special Senses	ectropion, eye disorder, eversion of the eyelid
11-06	11 The Special Senses	The Special Senses	entropion, eye disorder, inversion of the eyelid
11-07	11 The Special Senses	The Special Senses	hordeolum, sty, eye disorder
11-08	11 The Special Senses	The Special Senses	hyperopia, farsightedness, vision
11-09	11 The Special Senses	The Special Senses	myopia, nearsightedness, vision
11-10	11 The Special Senses	The Special Senses	pterygium, conjunctiva, eye disorder

11-11	11 The Special Senses	The Special Senses	convergent strabismus, eye disorder, squinting
11-12	11 The Special Senses	The Special Senses	divergent strabismus, eye disorder, squinting
11-13	11 The Special Senses	The Special Senses	ophthalmoscopy, eye examination, interior eye
11-14	11 The Special Senses	The Special Senses	ear, auricle, stapes, eustachian tube, cochlea, semicircular canals
11-15	11 The Special Senses	The Special Senses	hearing, sound vibrations, inner ear, external ear
11-16	11 The Special Senses	The Special Senses	hearing, Rinne test, tuning fork
11-17	11 The Special Senses	The Special Senses	hearing, Weber test, tuning fork test
11-18	11 The Special Senses	The Special Senses	hearing aid, in-ear,
11-19	11 The Special Senses	The Special Senses	hearing aid, behind-ear, sound
11-20	11 The Special Senses	The Special Senses	eyeball, vision, conjunctiva, fovea centralis, optic nerve
11-21	11 The Special Senses	The Special Senses	vision, left visual field, right visual field, visual pathways, visual cortex, optic chiasm
11-22	11 The Special Senses	The Special Senses	auricle, auditory canal, hearing, cochlea, incus, malleus, stapes
11-23	11 The Special Senses	The Special Senses	vision test, Snellen chart, diagnostic test
11-24	11 The Special Senses	The Special Senses	otoscope, otoscopy, otoscopic examination, tympanic membrane, external auditory canal
11-25A	11 The Special Senses	The Special Senses	normal vision, myopia, hyperopia, presbyopia, astigmatism
11-25B	11 The Special Senses	The Special Senses	normal vision, myopia, hyperopia, presbyopia, astigmatism
11-25C	11 The Special Senses	The Special Senses	normal vision, myopia, hyperopia, presbyopia, astigmatism
11-25D	11 The Special Senses	The Special Senses	normal vision, myopia, hyperopia, presbyopia, astigmatism
11-25E	11 The Special Senses	The Special Senses	normal vision, myopia, hyperopia, presbyopia, astigmatism

11-26A	11 The Special Senses	The Special Senses	radial keratotomy, myopia, cornea, refractive error
11-26B	11 The Special Senses	The Special Senses	radial keratotomy, myopia, cornea, refractive error
11-26C	11 The Special Senses	The Special Senses	radial keratotomy, myopia, cornea, refractive error
11-27	11 The Special Senses	The Special Senses	cataract, intraocular lens, cataract surgery, cataract extraction
11-28A	11 The Special Senses	The Special Senses	diabetes mellitus, diabetic retinopathy, microaneurysms, vascular changes, blindness, retina
11-28B	11 The Special Senses	The Special Senses	diabetes mellitus, diabetic retinopathy, microaneurysms, vascular changes, blindness, retina
11-29A	11 The Special Senses	The Special Senses	otitis media, ear infection, tympanic membrane
11-29B	11 The Special Senses	The Special Senses	otitis media, ear infection, tympanic membrane
11-30A	11 The Special Senses	The Special Senses	tympanoplasty, otitis media, ear infection, ear tubes
11-30B	11 The Special Senses	The Special Senses	tympanoplasty, otitis media, ear infection, ear tubes
11-30C	11 The Special Senses	The Special Senses	tympanoplasty, otitis media, ear infection, ear tubes
11-31	11 The Special Senses	The Special Senses	stapedectomy, otosclerosis, stapes, prosthesis, conductive hearing loss
11-32	11 The Special Senses	The Special Senses	retinal detachment, diabetes, retinopathy, choroid layer, sclera, retina
11-33	11 The Special Senses	The Special Senses	conjunctiva, lacrimal gland, pupil, iris, sclera, lacrimal canals, tear duct, eye
11-34	11 The Special Senses	The Special Senses	eye, sclera, pupil, lens, optic nerve, fovea centralis, macula
11-35	11 The Special Senses	The Special Senses	levator palpebrae superioris, superior oblique, superior rectus, lateral rectus, inferior oblique, inferior rectus

11-36	11 The Special Senses	The Special Senses	conjunctiva, aqueous humor, anterior chamber, canal of Schlemm
11-37	11 The Special Senses	The Special Senses	rods, cones, neurons, optic nerve, ganglion cell, retina
11-38	11 The Special Senses	The Special Senses	vision, blind spot, optic disc, fovea centralis
11-39	11 The Special Senses	The Special Senses	vision pathway, cornea, pupil, lens, retina, rods, cones, optic nerve, optic chiasma, optic tracts, occipital lobe
11-41	11 The Special Senses	The Special Senses	retinal detachment, diabetes, retinopathy, choroid layer, sclera, retina
11-42	11 The Special Senses	The Special Senses	sty, sebaceous glands, hordeolum
11-43	11 The Special Senses	The Special Senses	vision, myopia, hyperopia, nearsightedness, farsightedness, refraction
11-44	11 The Special Senses	The Special Senses	auricle, malleus, anvil, stapes, tympanic membrane, cochlea, vestibulocochlear nerve, vestibule
11-45	11 The Special Senses	The Special Senses	cochlea, crista ampullaris, inner ear, semicircular canals
11-46	11 The Special Senses	The Special Senses	hearing, sound waves, pinna, auditory canal, tympanic membrane, ear ossicles, receptors, cochlea, cochlear nerve, temporal lobe
11-47	11 The Special Senses	The Special Senses	nasal cavity, olfactory nerve, olfactory epithelium, limbic system
11-48	11 The Special Senses	The Special Senses	gonorrhea, sexually transmitted disease, eye infection
11-49	11 The Special Senses	The Special Senses	mucomycosis, fungal infection, eye infection, immunocompromised
11-50	11 The Special Senses	The Special Senses	gonorrhea, sexually transmitted disease, newborn, ophthalmia neonatorum

12-01	12 The Urinary System	The Urinary System	kidney, bladder, prostate, urethra
12-02	12 The Urinary System	The Urinary System	CT scan, urinary system, kidney, liver, spleen
12-03	12 The Urinary System	The Urinary System	nephron, kidney, Bowman's capsule, glomerulus, Henle's loop, proximal convoluted tubule, distal convoluted tube, capillary net
12-04	12 The Urinary System	The Urinary System	kidney, medulla, cortex, renal pelvis, renal vein, renal artery, hilum, renal papilla, renal pyramid, ureter
12-05	12 The Urinary System	The Urinary System	urinary bladder, penis, urethra, epididymis, testis
12-06	12 The Urinary System	The Urinary System	urinary bladder, vagina, urethra, ovary, ureter, fallopian tube
12-07A	12 The Urinary System	The Urinary System	urinary bladder, urinary meatus, urethra, external sphincter,
12-07B	12 The Urinary System	The Urinary System	urinary bladder, urinary meatus, urethra, external sphincter,
12-08	12 The Urinary System	The Urinary System	urine, kidney, nephron, micturition, urination
12-09	12 The Urinary System	The Urinary System	urine formation, urination, micturition, glomerulus, Bowman's capsule, renal tubules, ureter, kidney, nephron
12-10	12 The Urinary System	The Urinary System	hydronephrosis, kidney disease, stricture, obstruction, ureter
12-11	12 The Urinary System	The Urinary System	polycystic kidney disease, kidney, nephron, renal pelvis
12-12	12 The Urinary System	The Urinary System	peritoneal dialysis, kidney disease, kidney function, peritoneal cavity, Tenckhoff catheter, dialysate solution
12-13	12 The Urinary System	The Urinary System	continuous cyclic peritoneal dialysis, kidney disease, kidney function, dialysate
12-14	12 The Urinary System	The Urinary System	hemodialysis, metabolic waste, end-stage renal failure

12-15	12 The Urinary System	The Urinary System	hemodialysis, metabolic waste, end-stage renal failure, arteriovenous fistula
12-16	12 The Urinary System	The Urinary System	renal transplant, kidney transplant, internal iliac artery, kidney placement, donor kidney
12-17	12 The Urinary System	The Urinary System	cystoscopy, penis, urinary bladder, prostate, cystoscope, rectum
12-18	12 The Urinary System	The Urinary System	urinalysis, reagent strip, urine sample
12-19	12 The Urinary System	The Urinary System	kidney, cancer, carcinoma
12-20	12 The Urinary System	The Urinary System	urinary system, kidneys, ureters, bladder urethra
12-21A	12 The Urinary System	The Urinary System	catheterization, in and out catheter, indwelling catheter, suprapubic catheter
12-21B	12 The Urinary System	The Urinary System	catheterization, in and out catheter, indwelling catheter, suprapubic catheter
12-21C	12 The Urinary System	The Urinary System	catheterization, in and out catheter, indwelling catheter, suprapubic catheter
12-22A	12 The Urinary System	The Urinary System	UTI, urinary tract infection, urethritis, cystitis, pyelitis, pyelonephritis
12-22B	12 The Urinary System	The Urinary System	UTI, urinary tract infection, urethritis, cystitis, pyelitis, pyelonephritis
12-22C	12 The Urinary System	The Urinary System	UTI, urinary tract infection, urethritis, cystitis, pyelitis, pyelonephritis
12-22D	12 The Urinary System	The Urinary System	UTI, urinary tract infection, urethritis, cystitis, pyelitis, pyelonephritis
12-22E	12 The Urinary System	The Urinary System	UTI, urinary tract infection, urethritis, cystitis, pyelitis, pyelonephritis
12-23	12 The Urinary System	The Urinary System	hydronephrosis, kidney disease, stricture, obstruction, ureter
12-24	12 The Urinary System	The Urinary System	kidney, renal calculi, kidney stones
12-25	12 The Urinary System	The Urinary System	lithotripsy, kidney stones, renal calculi

12-26	12 The Urinary System	The Urinary System	polycystic kidney disease, kidney, nephron, renal pelvis
12-27	12 The Urinary System	The Urinary System	ammonia, renal failure, blood urea nitrogen, creatinine, uremia, toxicity
12-28	12 The Urinary System	The Urinary System	hemodialysis, renal failure, blood waste products
12-29	12 The Urinary System	The Urinary System	hemodialysis, shunts, arteriovenous fistula, arteriovenous vein graft
12-30A	12 The Urinary System	The Urinary System	peritoneal dialysis, continuous ambulatory peritoneal dialysis, CAPD, self-dialysis
12-30B	12 The Urinary System	The Urinary System	peritoneal dialysis, continuous ambulatory peritoneal dialysis, CAPD, self-dialysis
12-31A	12 The Urinary System	The Urinary System	Kegel exercises, incontinence, bladder, sphincter muscles
12-31B	12 The Urinary System	The Urinary System	Kegel exercises, incontinence, bladder, sphincter muscles
12-32	12 The Urinary System	The Urinary System	collagen injection, stress incontinence, urethra
12-33	12 The Urinary System	The Urinary System	kidney, ureter, hilum, urinary bladder, urethra
12-34	12 The Urinary System	The Urinary System	kidney, renal pyramid, renal column, renal papilla, renal capsule, medulla, cortex, ureter, minor calyx, renal pelvis, major calyces, minor calyces
12-35	12 The Urinary System	The Urinary System	kidney, nephron, functional unit
12-36	12 The Urinary System	The Urinary System	kidney, proximal tubule, Bowman's capsule, glomerulus, distal tubule
12-37	12 The Urinary System	The Urinary System	kidney, blood flow, interlobar arteries, nephron
12-38	12 The Urinary System	The Urinary System	urinary bladder, ureters, kidneys, urethra

12-39	12 The Urinary System	The Urinary System	urinary bladder, prostate, urethra, detrusor muscle, ureter
12-40	12 The Urinary System	The Urinary System	bladder, kidneys, urethra, adrenal gland
12-41	12 The Urinary System	The Urinary System	kidney, nephron, loop of Henle, Bowman's capsule
12-42	12 The Urinary System	The Urinary System	kidney, nephron, loop of Henle, Bowman's capsule
12-43	12 The Urinary System	The Urinary System	nephron, glomerulus, tubule, efferent arteriole, tubular reabsorption, tubular secretion, urinary meatus, urination
12-44	12 The Urinary System	The Urinary System	urinalysis, diagnostic test, body fluids, urine
12-45	12 The Urinary System	The Urinary System	salt retention, water retention, osmotic pressure, hypothalamus
12-46	12 The Urinary System	The Urinary System	dialysis, hemodialysis, dialyzer
12-47	12 The Urinary System	The Urinary System	peritoneal dialysis, end-stage renal disease, kidney transplant
12-48	12 The Urinary System	The Urinary System	urinary system, kidneys, ureters, bladder urethra
12-49	12 The Urinary System	The Urinary System	kidney, nephron, renal pyramid, calyces, cortex
12-50	12 The Urinary System	The Urinary System	nephrosis, kidney disease, edema
13-01	13 The Male Reproductive Syst	The Male Reproductive System	male reproductive system, penis, scrotum, prostate gland, seminal vesicle, Cowper's glands, epididymis, testis
13-02	13 The Male Reproductive Syst	The Male Reproductive System	testis, self-examination, penis
13-03	13 The Male Reproductive Syst	The Male Reproductive System	self-examination, penis, penile discharge
13-04	13 The Male Reproductive Syst	The Male Reproductive System	epispadias, urethral meatus, congenital defect
13-05	13 The Male Reproductive Syst	The Male Reproductive System	hypospadias, urethral meatus, congenital defect

13-06	13 The Male Reproductive Syst	The Male Reproductive System	inguinal hernia, herniated intestine, inguinal ring
13-07	13 The Male Reproductive Syst	The Male Reproductive System	varicocele, spermatic cord, infertility
13-08	13 The Male Reproductive Syst	The Male Reproductive System	genital herpes, female, cervix, sexually transmitted diseases
13-09	13 The Male Reproductive Syst	The Male Reproductive System	genital herpes, male, penis, sexually transmitted diseases
13-10	13 The Male Reproductive Syst	The Male Reproductive System	primary syphilis, sexually transmitted disease, penis
13-11	13 The Male Reproductive Syst	The Male Reproductive System	circumcision, penis, glans penis
13-12	13 The Male Reproductive Syst	The Male Reproductive System	circumcision, penis, glans penis
13-13	13 The Male Reproductive Syst	The Male Reproductive System	vasectomy, vas deferens, testicle
13-14	13 The Male Reproductive Syst	The Male Reproductive System	male reproductive system, penis, scrotum, prostate gland, seminal vesicle, Cowper's glands, epididymis, testis
13-15	13 The Male Reproductive Syst	The Male Reproductive System	digital rectal exam, prostate, hypertrophy, hyperplasia
13-16A	13 The Male Reproductive Syst	The Male Reproductive System	prostate, benign prostatic hyperplasia, urinary dysfunction,
13-16B	13 The Male Reproductive Syst	The Male Reproductive System	prostate, benign prostatic hyperplasia, urinary dysfunction,
13-17	13 The Male Reproductive Syst	The Male Reproductive System	transurethral resection of prostate, TURP, benign prostatic hyperplasia, BPH, enlarged prostate
13-18	13 The Male Reproductive Syst	The Male Reproductive System	cryptorchidism, cryptorchism, testicles, undescended testicles, scrotum
13-19	13 The Male Reproductive Syst	The Male Reproductive System	phimosis, dyspareunia, painful sexual intercourse, foreskin, penis
13-20	13 The Male Reproductive Syst	The Male Reproductive System	penis, testes, scrotum, prostate, epididymis, bladder
13-21	13 The Male Reproductive Syst	The Male Reproductive System	testis, testicle, scrotum, epididymis, sperm
13-22	13 The Male Reproductive Syst	The Male Reproductive System	sperm production, spermatogenesis, seminiferous tubule, mitosis, meiosis

13-23	13 The Male Reproductive Syst	The Male Reproductive System	sperm cell, acrosome, flagellum
13-24	13 The Male Reproductive Syst	The Male Reproductive System	karyotype, chromosome, male somatic cell
13-25	13 The Male Reproductive Syst	The Male Reproductive System	sperm, ovum, sex cells
13-26	13 The Male Reproductive Syst	The Male Reproductive System	external genitalia, differentiation, male genitalia, female genitalia
13-27	13 The Male Reproductive Syst	The Male Reproductive System	penis, testes, scrotum, prostate, epididymis, bladder
13-28	13 The Male Reproductive Syst	The Male Reproductive System	testis, epididymis, seminiferous tubules, testes, scrotum
13-29	13 The Male Reproductive Syst	The Male Reproductive System	prostate, benign prostatic hyperplasia, urinary dysfunction,
13-30	13 The Male Reproductive Syst	The Male Reproductive System	chancroid infection, sexually transmitted disease, ulcer
13-31	13 The Male Reproductive Syst	The Male Reproductive System	gonorrhea, sexually transmitted disease, penis
13-32	13 The Male Reproductive Syst	The Male Reproductive System	penis, epidermoid cyst, urethra
13-33	13 The Male Reproductive Syst	The Male Reproductive System	syphilis, sexually transmitted disease, penis
14-01	14 The Female Reproductive Sy	The Female Reproductive Syst	female reproductive system, internal genitalia, vagina, ovary, fallopian tube, uterus
14-02	14 The Female Reproductive Sy	The Female Reproductive Syst	female reproductive system, external genitalia, vagina, hymen, anus, perineum, labia minora, labia majora, symphysis pubis, clitoris, mons pubis
14-03	14 The Female Reproductive Sy	The Female Reproductive Syst	breasts, examination, normal breasts
14-04	14 The Female Reproductive Sy	The Female Reproductive Syst	breasts, areola, lactiferous duct, pectoralis major muscle
14-05	14 The Female Reproductive Sy	The Female Reproductive Syst	female pelvis, symphysis pubis, true pelvis, ilium, sacrum, coccyx, false pelvis, ischial spines

14-06	14 The Female Reproductive Sy	The Female Reproductive Syst	birth control, oral contraceptives, the pill
14-07	14 The Female Reproductive Sy	The Female Reproductive Syst	tubal ligation, birth control, tube tying,
14-08	14 The Female Reproductive Sy	The Female Reproductive Syst	fallopian tube, uterus, ovary
			cystocele, bladder hernia, vagina
			endometriosis, umbilicus, labia minora,
14-09	14 The Female Reproductive Sy	The Female Reproductive Syst	pouch of Douglas, rectus muscle, ovary,
			bladder, sigmoid
			breast self-examination, breast cancer,
14-10A	14 The Female Reproductive Sy	The Female Reproductive Syst	early detection
			breast self-examination, breast cancer,
14-10B	14 The Female Reproductive Sy	The Female Reproductive Syst	early detection
			breast self-examination, breast cancer,
14-10C	14 The Female Reproductive Sy	The Female Reproductive Syst	early detection
			breast self-examination, breast cancer,
14-10D	14 The Female Reproductive Sy	The Female Reproductive Syst	early detection
			breast self-examination, breast cancer,
14-10E	14 The Female Reproductive Sy	The Female Reproductive Syst	early detection
			colposcope, colposcopy, vagina, cervix
14-11	14 The Female Reproductive Sy	The Female Reproductive Syst	dilatation and curettage, D and C,
			uterine wall, uterus, speculum
			dilatation and curettage, D and C,
14-12	14 The Female Reproductive Sy	The Female Reproductive Syst	uterine wall, uterus, curet, speculum
			laparoscopy, laparoscope, speculum,
14-13	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, uterus
			mammography, breast cancer, early
14-14	14 The Female Reproductive Sy	The Female Reproductive Syst	detection
			endocervical smear, Pap test, cervical
14-15	14 The Female Reproductive Sy	The Female Reproductive Syst	cancer
			pelvic examination, bimanual
14-16	14 The Female Reproductive Sy	The Female Reproductive Syst	examination, gynecological examination
14-17	14 The Female Reproductive Sy	The Female Reproductive Syst	

14-18A	14 The Female Reproductive Sy	The Female Reproductive Syst	vulva, clitoris, urethral meatus, Skene's glands, labia minora vagina, hymen, Bartholin's gland fourchette, perineum, anus
14-18B	14 The Female Reproductive Sy	The Female Reproductive Syst	vulva, clitoris, urethral meatus, Skene's glands, labia minora vagina, hymen, Bartholin's gland fourchette, perineum, anus
14-19	14 The Female Reproductive Sy	The Female Reproductive Syst	speculum, Pap smear, cervix, cytologic exam
14-20	14 The Female Reproductive Sy	The Female Reproductive Syst	laparoscopy, laparoscope, abdominal cavity, female reproductive organs
14-21	14 The Female Reproductive Sy	The Female Reproductive Syst	mammography, needle aspiration, incisional biopsy, breast
14-22	14 The Female Reproductive Sy	The Female Reproductive Syst	endometriosis, endometrium, irregular bleeding, infertility
14-23	14 The Female Reproductive Sy	The Female Reproductive Syst	ovarian cyst, fluid-filled sac, physiologic cyst, neoplastic cyst
14-24	14 The Female Reproductive Sy	The Female Reproductive Syst	fibroid tumor, ovary, uterus, Fallopian tube, vagina
14-25	14 The Female Reproductive Sy	The Female Reproductive Syst	uterus, first-degree prolapse, second-degree prolapse, third-degree prolapse, prolapsed uterus
14-26	14 The Female Reproductive Sy	The Female Reproductive Syst	cystocele, rectocele, uterus, bladder, rectum, vagina
14-27	14 The Female Reproductive Sy	The Female Reproductive Syst	lumpectomy, simple mastectomy, total mastectomy, modified radical
14-28	14 The Female Reproductive Sy	The Female Reproductive Syst	mastectomy, radical mastectomy vagina, uterus, ovary
14-29	14 The Female Reproductive Sy	The Female Reproductive Syst	ovaries, uterine tubes, uterus, vagina, cervix
14-30	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, Graafian follicle, ovum, corpus luteum, zone pellucida
14-31	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, egg production, oogenesis, oogonium, meiosis

14-32	14 The Female Reproductive Sy	The Female Reproductive Syst	menstrual phase, proliferative phase, ovulation, secretory phase, menstruation
14-33	14 The Female Reproductive Sy	The Female Reproductive Syst	external genitalia, vulva, mons pubis, clitoris, labia minora, labia majora, vaginal orifice, Bartholin's gland, hymen, perineum, anus
14-34	14 The Female Reproductive Sy	The Female Reproductive Syst	mammary gland, lactating breast, areola, breast, pectoralis minor, nipple
14-35	14 The Female Reproductive Sy	The Female Reproductive Syst	sperm, ovum, sex cells
14-36	14 The Female Reproductive Sy	The Female Reproductive Syst	sperm, ovum, fertilization, vagina, fallopian tube
14-37	14 The Female Reproductive Sy	The Female Reproductive Syst	pelvic cavity, female reproductive system, uterus, vagina, ovaries
14-38	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, fallopian tube, uterus, cervix, vagina
14-39	14 The Female Reproductive Sy	The Female Reproductive Syst	sagittal view, vagina, uterus, ovary, fallopian tube,
14-40	14 The Female Reproductive Sy	The Female Reproductive Syst	external genitalia, clitoris, hymen, vagina, labia majora, labia minora, perineum, mons pubis, anus
14-41	14 The Female Reproductive Sy	The Female Reproductive Syst	sagittal view, breast, areola, nipple, lactiferous duct, Cooper's ligament, adipose tissue, pectoralis major
14-42	14 The Female Reproductive Sy	The Female Reproductive Syst	menstruation, ovulation, period, menstrual cycle
14-43	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, graafian follicle, ovum, corpus luteum, ovulation
14-44	14 The Female Reproductive Sy	The Female Reproductive Syst	breast cancer, mastectomy, complications
14-45	14 The Female Reproductive Sy	The Female Reproductive Syst	sexually transmitted disease, genital warts, vulva
14-46	14 The Female Reproductive Sy	The Female Reproductive Syst	ovary, vagina, uterus, reproductive system
14-47	14 The Female Reproductive Sy	The Female Reproductive Syst	genital warts, sexually transmitted disease, vulva

15-01	15 Obstetrics	Obstetrics	amniotic sac, uterus, amniotic fluid, amnion, chorion, placenta
15-02	15 Obstetrics	Obstetrics	uterus, placenta, umbilical cord
15-03	15 Obstetrics	Obstetrics	pregnancy, uterus, fundus
15-04	15 Obstetrics	Obstetrics	supine hypotension, descending aorta, pregnancy, uterus, blood vessels
15-05A	15 Obstetrics	Obstetrics	pregnancy, posture, 6 weeks' gestation; full-term pregnancy; 40 weeks' gestation
15-05B	15 Obstetrics	Obstetrics	pregnancy, posture, 6 weeks' gestation; full-term pregnancy; 40 weeks' gestation
15-06	15 Obstetrics	Obstetrics	linea nigra, striae gravidarum, pregnancy
15-07	15 Obstetrics	Obstetrics	fetoscope, fetal heartbeat, pregnancy
15-08	15 Obstetrics	Obstetrics	Doppler, pregnancy, ultrasound
15-09	15 Obstetrics	Obstetrics	lithotomy position, pelvic examination, gynecologic examination
15-10	15 Obstetrics	Obstetrics	lordosis, posture, pregnancy
15-11	15 Obstetrics	Obstetrics	placenta previa, pregnancy, uterus
15-12	15 Obstetrics	Obstetrics	dilatation, effacement, cervix, labor and delivery
15-13	15 Obstetrics	Obstetrics	amniocentesis, ultrasound monitoring, amniotic fluid, placenta
15-15	15 Obstetrics	Obstetrics	pregnancy, pelvic ultrasound, fetus
15-16A	15 Obstetrics	Obstetrics	uterine pregnancy, abruptio placentae, placenta previa
15-16B	15 Obstetrics	Obstetrics	uterine pregnancy, abruptio placentae, placenta previa
15-16C	15 Obstetrics	Obstetrics	uterine pregnancy, abruptio placentae, placenta previa
15-17	15 Obstetrics	Obstetrics	ectopic pregnancy, ovarian pregnancy, tubal pregnancy, peritoneal pregnancy
15-18	15 Obstetrics	Obstetrics	embryo, chorionic villi, chorion, uterus, germ layers

15-19	15 Obstetrics	Obstetrics	labor, fetus, vaginal delivery, cervical dilation, placenta
15-20	15 Obstetrics	Obstetrics	sperm, ovum, fertilization, vagina, fallopian tube
15-21	15 Obstetrics	Obstetrics	embryo, fertilization, fetus
15-22	15 Obstetrics	Obstetrics	external genitalia, differentiation, male genitalia, female genitalia
15-23	15 Obstetrics	Obstetrics	ectopic pregnancy, abdominal pregnancy, intramural pregnancy, fimbrial pregnancy, ovarian pregnancy
16-01	16 Child Health	Child Health	well child examination, weight, infants
16-02	16 Child Health	Child Health	well child examination, head circumference, infants
16-03	16 Child Health	Child Health	well child examination, length, infants
16-04	16 Child Health	Child Health	child development, cephalocaudal, proximodistal
16-05	16 Child Health	Child Health	deciduous teeth, baby teeth, permanent teeth, dentition
16-06	16 Child Health	Child Health	ventricles, hydrocephalus, brain, bulging fontanel, aqueduct of Sylvius
16-07	16 Child Health	Child Health	varicella, chickenpox, childhood illnesses
16-08	16 Child Health	Child Health	Fifth disease, erythema infectiosum, childhood illnesses
16-09	16 Child Health	Child Health	impetigo, bacterial infection, skin infection
16-10	16 Child Health	Child Health	mumps, parotitis, childhood illnesses
16-11	16 Child Health	Child Health	rubella, childhood illnesses, virus, MMR vaccine
16-12	16 Child Health	Child Health	rubeola, measles, MMR vaccine, childhood illnesses

16-13	16 Child Health	Child Health	scarlet fever, strep throat, childhood illnesses, pharyngitis
16-14	16 Child Health	Child Health	cleft lip, cleft palate, congenital defect,
16-15	16 Child Health	Child Health	cleft palate, cleft lip, congenital defect
16-17	16 Child Health	Child Health	dwarfism, congenital defect, endocrine dysfunction
16-18	16 Child Health	Child Health	hydrocephalus, brain, water on the brain, ventricles
16-19A	16 Child Health	Child Health	umbilical hernia, umbilicus, navel, belly button
16-19B	16 Child Health	Child Health	umbilical hernia, umbilicus, navel, belly button
16-20	16 Child Health	Child Health	capillary heel puncture, phlebotomy, taking blood in infants
16-21	16 Child Health	Child Health	pediatric urine collection, urine sample, urinalysis
16-22	16 Child Health	Child Health	maculopapular rash, rubeola, childhood illness
16-23	16 Child Health	Child Health	Koplik's spots, rubeola, childhood illness
16-24	16 Child Health	Child Health	rash, rubella, childhood illness
16-25	16 Child Health	Child Health	macular rash, varicella, chickenpox, childhood illness
16-26	16 Child Health	Child Health	rubella virus, German measles, childhood illness
16-27	16 Child Health	Child Health	measles, rubeola virus, childhood illness
16-28	16 Child Health	Child Health	monkeypox, childhood illness, virus
16-29	16 Child Health	Child Health	childhood health, German measles, rubella

16-30	16 Child Health	Child Health	Koplik's spots, measles, childhood illness, rubella
16-31	16 Child Health	Child Health	polio, childhood illness, vaccination, deformed legs
17-01	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	angiogram, abdomen, kidney, renal artery, aorta, iliac artery
17-02	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	barium swallow, upper GI series, endoscopy
17-03	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	PTHC, bile duct, obstruction, gallbladder
17-04	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	ERCP, stones, endoscopy, endoscopic retrograde cholangiopancreatography
17-05	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	computed tomography, CT, imaging
17-06	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	computed tomography, CT, imaging
17-07	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	magnetic resonance imaging, MRI, brain, bleeding
17-08	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	mammography, Cleopatra view, early detection
17-09	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	mammography, Cleopatra view, radiograph
17-10	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	lumbar myelogram, lumbar vertebra, spinal canal, contrast medium
17-11	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	PET scan, lung cancer, body scan
17-12	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	bone scan, skeletal system, imaging
17-13	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	radiography, small bowel study, imaging, duodenum, ileum
17-14	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	ultrasound, attenuation, imaging
17-15	17 Radiology and Diagnostic Im	Radiology and Diagnostic Imagi	chest, anteroposterior view, lung, heart
18-02	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	basal cell carcinoma, skin cancer, sun damage

18-03	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	breast cancer, peau d'orange, breast abnormality
18-04	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	modified radical mastectomy, breast cancer,
18-05	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	Kaposi's sarcoma, AIDS, HIV
18-06	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	malignant melanoma, skin cancer, sun damage
18-07	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	squamous cell carcinoma, skin cancer, sun damage
18-08	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal cell, atrophied cell, atrophy, cellular adaptation
18-09	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal cell, hypertrophied cell, hypertrophy, cellular adaptation
18-10	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal tissue, hyperplasia, cellular adaptation
18-11	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal tissue, metaplasia, cellular adaptation
18-12	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal tissue, dysplasia, cellular adaptation
18-13	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal tissue, neoplasia, cellular adaptation
18-14	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	neoplasms, benign, malignant, cancer
18-15	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal cells, cancer cells, cancer
18-16	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	cell differentiation, cancer, germ cell
18-17	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	hyperplasia, neoplasm, normal cell, cancer
18-18	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	normal cells, carcinoma in situ, carcinoma, cancer
18-19	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	hyperplasia, dysplasia, metaplasia, neoplasia, cancer

18-20A	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	biopsy, pathology, microbiology, cancer
18-20B	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	biopsy, pathology, microbiology, cancer
18-21	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	facial tumor, Burkitt's lymphoma, Epstein-Barr virus, Central Africa
18-22	18 Oncology (Cancer Medicine)	Oncology (Cancer Medicine)	cervical cancer, human papilloma virus, sexually transmitted disease
19-01	19 Pharmacology	Pharmacology	Physicians' Desk Reference, PDR, references
19-02	19 Pharmacology	Pharmacology	drug sources, plants, minerals, animals, synthetics
19-03	19 Pharmacology	Pharmacology	caplet, capsule, tablet, oral medications
19-04	19 Pharmacology	Pharmacology	inhalants,
19-05	19 Pharmacology	Pharmacology	suppositories, route, rectum
19-06	19 Pharmacology	Pharmacology	transdermal patch, route, skin patch
19-07	19 Pharmacology	Pharmacology	parenteral medications, intramuscular, subcutaneous, intravenous, intradermal
20-01	20 Mental Health	Mental Health	CT imaging, brain scan, schizophrenia
20-03	20 Mental Health	Mental Health	draw-a-person test,
20-04	20 Mental Health	Mental Health	carcinoma
20-05	20 Mental Health	Mental Health	skin, elderly, aging
21-01	21 Gerontology	Gerontology	hip fracture, femoral head, femur
21-02	21 Gerontology	Gerontology	osteoporosis, dowager's hump, normal spine, structural changes
21-03	21 Gerontology	Gerontology	bunion,
21-04	21 Gerontology	Gerontology	osteoarthritis, knee joint, patella
21-05	21 Gerontology	Gerontology	emphysema, alveoli, smoking

21-06	21 Gerontology	Gerontology	cataract, eye disease, blindness
21-07	21 Gerontology	Gerontology	ectropion,
21-08	21 Gerontology	Gerontology	entropion,
21-09	21 Gerontology	Gerontology	coronary artery bypass, heart disease, venous graft
21-10	21 Gerontology	Gerontology	directional coronary atherectomy, coronary artery disease, heart disease
21-11	21 Gerontology	Gerontology	hearing aid, in-ear style,
21-12	21 Gerontology	Gerontology	hearing aid, behind-ear style,
21-13	21 Gerontology	Gerontology	fracture, internal fixation device
21-14	21 Gerontology	Gerontology	balloon angioplasty, coronary artery disease, heart disease

Caption

Component parts of a cell

Midsagittal plane

Frontal (coronal) plane

Transverse plane

Abdominal regions

Abdominal quadrants

Major body cavities and subdivisions

Divisions of the back

Anatomical position

Supine position

Prone position

Pathologist looking through a microscope.

Physician checking a patient.

Holistic medicine

Hematoma

Bacterial culture

Bacterial sensitivity

Top. CT of chest and abdomen, Bottom: MRI of head

Cell division: mitosis and meiosis

Patterns of dominance

Autosomal dominant pattern

Autosomal recessive pattern

Autosomal recessive pattern

Autosomal recessive pattern

Sex-linked recessive pattern

Causes of congenital anomalies

Gower's maneuver

Asymmetrical thigh folds and Ortolani's sign in congenital hip dislocation

A ventricle shunt drains spinal fluid in an infant with hydrocephalus

Types of spina bifida

Types of spina bifida

Types of spina bifida

Congenital heart defects in a normal heart

Digestive developmental malformations

A. Cleft lip (Courtesy of Dr. Joseph Konzelman, School of Dentistry, Medical College of Georgia)

B. cleft palate (Courtesy of Dr. Joseph Konzelman, School of Dentistry, Medical College of Georgia)

Pyloric stenosis

Hirschsprung's disease

A. Hypospadias, B. chordee C. epispadias

The human body in correct anatomic position illustrating the planes of the body.

Directional terms relating to anatomic position

The thoracic and abdominopelvic cavities of the body and some of the organs they contain.

The structural levels of organization of the body.

The integumentary, skeletal, and muscular systems of the body

The nervous, endocrine, and cardiovascular, or circulatory, systems of the body

The lymphatic (or immune), respiratory, and digestive systems of the body.

The urinary and reproductive systems of the body

The hydrogen atom is unique because its nucleus contains only one proton.

The periodic table of the elements

The formation of an ionic bond between sodium and chloride forms Na^+Cl^- (sodium chloride or table salt).

The formation of compounds through covalent bonding.

The uniqueness of the water molecule

The chemical structure of the six-carbon sugars, glucose and fructose. When combined, they produce the disaccharide sucrose.

The structure of a fatlike triacylglycerol is composed of a glycerol molecule and fatty acids.

The general structure of an amino acid and the list of the 20 amino acids found in the human body.

The formation of a dipeptide bond to form a protein.

The four levels of protein structure

A. The structure of a nucleotide.

B. nitrogen bases.

The structure of the adenosine triphosphate (ATP) molecule.

A simple experiment to illustrate osmosis

The effects of osmosis on red blood cells when placed in different concentrations of salt solutions.

The pH of various solutions. A pH above 7 indicates a base; a value below 7 indicates an acid.

A diagram of a typical animal cell illustrating a three-dimensional view of cell ultrastructure.

A diagram of a typical plant cell illustrating a three-dimensional view of cell ultrastructure.

The structure of a plasma (cell) membrane.

The functions of proteins embedded in the double phospholipid layer of the cell membrane.

The protein nature of the sodium-potassium pump of the cell membrane of muscle and nerve cells.

The structure of the nuclear membrane or envelope. A.

Diagrammatic view of the internal anatomy of the nucleus and the connection of the outer nuclear membrane with rough endoplasmic reticulum. B.

Diagrammatic view of the pore complex.

Some different levels of chromosomal organization

The membrane structure of a typical mitochondrion.

The structure and nature of the endoplasmic reticulum and the Golgi body

An overview of the process of protein synthesis

The structure of a centriole

The internal anatomy of a cilium or flagellum

The internal anatomy of a chloroplast

The parts of a compound light microscope

The structure of a Paramecium

The basic steps in glycolysis, the first step in biochemical respiration.

The Krebs citric acid cycle and its products

The electron transport or transfer system and ATP production

How the digestion of proteins and fats fits into the biochemical respiration process

How a piece of candy gets metabolized to ATP

An overview of cellular respiration

The double helical chain of nucleotides of a DNA molecule (a very short section)

The hydrogen bonds between the purines and the pyrimidines and the chemical structure of a DNA molecule

DNA replication. The two chains of nucleotides separate at the base pairs and are duplicated.

The stages of the cell cycle

An illustration of interphase and the stages of mitosis,

The sexual cycle

The stages of meiosis and the behavior of the chromosomes

The pairing up of homologous chromosomes in prophase I of meiosis produces figures called tetrads. When crossing-over occurs, it is visible and it is called chiasmata

Spermatogenesis occurring in the seminiferous tubules of the testes

Oogenesis occurring in the ovary

A comparison of mitosis and meiosis

View of squamous epithelium

View of cuboidal epithelium

View of columnar epithelium

View of areolar or loose connective tissue

View of adipose tissue. It surround the lobules of mammary glands.

The anatomy of hyaline cartilage

The anatomy of fibrocartilage

The anatomy of elastic cartilage

View of compact bone

View of blood, a unique fluid connective tissue

A diagram of a lymph capillary

View of smooth muscle cells

Views of skeletal muscle cells.

Views of cardiac muscle cells.

Views of a neuron (multicolor, motor neuron).

Anatomical terms are used to describe body division parts

Imaging lines, or planes, separate body structures

Cavities of the body

Nine regions of the abdominal area

Structure of an atom. Eight protons and eight neutrons are tightly bound in the central nucleus, around which the eight electrons revolve.

Structure of a typical nucleotide

Schematic of DNA

Neutralization or exchange reaction

pH values of common acids, bases, and human body fluids

Structure of a typical animal cell

The process of meiosis

The five phases of mitosis: interphase, prophase, metaphase, anaphase, and telophase

The process of diffusion: The sugar molecules eventually reach a state of equilibrium.

Osmosis: the diffusion of water through a selective permeable membrane (A sausage casing is an example of a selective permeable membrane.)

Movement of water molecules in solutions of different osmotic pressure

Filtration: a passive transport process

The active transport of molecules from an area of lesser concentration to an area of greater concentration, according to one theoretical model.

Specialized cells: nerve cells and red blood cells

Comparison of normal cells to cancerous cells (Courtesy of National Cancer Society)

Mucous and serous membranes

The various organs of the human body function together. The formation of the human organism progresses from simple to complex.

Neisseria gonorrhoea (Courtesy of the Centers for Disease Control and Prevention)

Electron micrograph of hepatitis B virus (Courtesy of the Centers for Disease Control and Prevention)

Candida albicans (Courtesy of the Centers for Disease Control and Prevention)

Protozoa

The chain of infection: Preventive measures follow each link of the chain

Care must be taken in the handling of bodily fluids to prevent the transfer of infectious agents through contact with secretions.

The width of the area that droplet nuclei from a sneeze can encompass

Lyme disease is caused by the bite of a deer tick.
(Courtesy of the Centers for Disease Control and Prevention Public Health Image Library)

The body's response to inflammation

Airborne precautions (From BREVIS, Salt Lake City, UT. Copyright © 1996 by BREVIS Corporation. Reprinted with permission.)

Contact precautions (From BREVIS, Salt Lake City, UT. Copyright © 1996 by BREVIS Corporation. Reprinted with permission.)

Droplet precautions (From BREVIS, Salt Lake City, UT. Copyright © 1996 by BREVIS Corporation. Reprinted with permission.)

Food Guide Pyramid

Sample nutrition label

Bacterial spores (Courtesy of the CDC)

Aspergillus fumigatus

Life cycle of *Giardia lamblia*

Herpes simplex virus (Courtesy of the CDC)

Genital herpes

Pneumocystis carinii life cycle

Life cycle of *Toxoplasma gondii*

Layers and structures of the skin

Structure of the hair

Structure of the nail

Glands of the skin

Alopecia (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Wound measuring guide (Permission to reproduce this copyrighted material has been granted by the owner, Hollister Incorporated.)

Dermatitis (Courtesy of Timothy Berger, MD, Clinical Professor, Department of Dermatology, University of California, San Francisco)

Ecchymosis

Furuncle

Hemangioma

Paronychia

Sebaceous cyst in the midsternal area of chest (infected) (Compliments of Sandra Schultz, MD, Gastonia, NC, and Marla Jones, RN, BSN)

Urticaria (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Fissure

Macule

Papule

Vesicle

First-degree burn (Courtesy of The Phoenix Society for Burn Survivors, Inc.)

Second-degree burn (Courtesy of The Phoenix Society for Burn Survivors, Inc.)

Third-degree burn (Courtesy of The Phoenix Society for Burn Survivors, Inc.)

Basal cell carcinoma (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Squamous cell carcinoma (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Seborrheic dermatitis (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Herpes zoster (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Psoriasis (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Tinea capitis (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Tinea corporis (Courtesy of the Centers for Disease Control and Prevention)

Tinea pedis (Courtesy of the Centers for Disease Control and Prevention)

Malignant melanoma (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Inflammation of a finger

Tissue repair--complete regeneration and fibrous connective tissue repair

Tissue healing--primary and secondary union

Contact dermatitis (Courtesy of the Centers for Disease Control and Prevention, Atlanta, GA)

The structures of the skin

Skin lesions

Herpes simplex virus 1 (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Folliculitis (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Head lice (Courtesy of the Centers for Disease Control and Prevention)

Scabies (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Seborrheic dermatitis (Courtesy of the Centers for Disease Control and Prevention)

Eczema (Courtesy of the Centers for Disease Control and Prevention)

Hemangioma

Hemangioma

Rule of nines

The layers of the skin and some of its appendages

The epidermal and dermal layers of the skin

The anatomy of an individual hair

The anatomy of a nail. A. Posterior view of finger and B. fingernail and underlying structure

The skin is well supplied with nerves.

A cross section of the skin (B Courtesy of University of Wisconsin Medical School, Madison, WI)

A cross section of the skin (B Courtesy of University of Wisconsin Medical School, Madison, WI)

Diagram of the fingernail bed

Burns are usually referred to as A. first, B. second, or C. Third degrees (Photos courtesy of The Phoenix Society for Burn Survivors, Inc.)

Extraintestinal amebiasis involving the right flank (Courtesy of the CDC)

Angioma

Fungal Candidiasis infection of the fingernail (Courtesy of the CDC)

Cold sores (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Skin lesion on the forearm due to cutaneous anthrax (Courtesy of the CDC)

Skin lesion on the neck due to cutaneous anthrax (Courtesy of the CDC)

Diphtheria skin lesion on the leg (Courtesy of the CDC)

Facial erysipelas (Courtesy of the CDC)

Gas gangrene

German measles

Foot lesions due to gonorrhea infection (Courtesy of the CDC, J. Pledger, Dr. S.E. Thompson, VDCD)

Purpura (Courtesy of Dr. Mark Dougherty, Lexington, KY)

Hairy leukoplakia (Courtesy of the CDC, J.S. Greenspan, DDS., University of California, San Francisco, Sol Silverman, Jr. DDS)

Bull's eye rash due to Lyme disease (Courtesy of the CDC)

Papilloma on the chin (Courtesy of the CDC, Dr. Peter Perine)

Pityriasis rosea patch on the abdomen

An axillary bubo in a person with plague (Courtesy of the CDC, Margaret Parsons, Dr. Karl F. Meyer)

Cradle cap (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Rocky Mountain spotted fever rash (Courtesy of the CDC)

Mite (Courtesy of the CDC)

Scarlet fever rash (Courtesy of the CDC)

Strawberry tongue due to scarlet fever (Courtesy of the CDC)

Rash on the feet during secondary stage of syphilis (Courtesy of the CDC, Dr. Gavin Hart)

Gumma on the nose of a person in tertiary stage of syphilis (Courtesy of the CDC, J. Pledger)

Rash on the arm 3 to 5 days after onset of toxic shock syndrome

Infection in the eyes due to toxic shock syndrome (Courtesy of the CDC)

Tularemia lesion on the hand (Courtesy of the CDC, Dr. Brachman)

Rose spots on the chest due to typhoid fever (Courtesy of the CDC, Armed Forces Institute of Pathology, Charles N. Farmer)

Yaws lesion on the buttocks of a 13-year-old girl (Courtesy of the CDC, Clement Benjamin)

Structure of a long bone

Bone processes

Bone processes

Bone processes

Bone processes

Cranial bones

Fontanel in the newborn cranium

Fontanel in the newborn cranium

Facial bones

Hyoid bone

Divisions of a vertebral column

Structure of a thoracic vertebra

Bones of the thorax

Scapula

Bones of the upper extremities

Bones of the pelvis

Bones of the lower extremities

Bones of the ankle and foot

Bones of the ankle and foot

Structural changes due to osteoporosis

Talipes equinovarus

Abnormal curvatures of the spine

Scoliosis screening: Normal spine

Scoliosis screening: patient with scoliosis standing erect
(iliac crests are not symmetrical)

Scoliosis screening: patient with scoliosis bending
forward (shoulders are not symmetrical)

Closed fracture (simple, complete)

Open (compound, complete)

Greenstick fracture (incomplete)

Compression fracture

Impacted fracture

Comminuted fracture

Colles' fracture

Closed reduction of a fracture

Devices used to stabilize fractures

Devices used to stabilize fractures

Devices used to stabilize fractures

Open reduction of a fracture

Internal fixation devices

A bone scan of the head, shoulders, and upper spine. A.
Anterior view

A bone scan of the head, shoulders, and upper spine. B.
Posterior view

Sites for bone marrow aspiration

Examples of types of bones

The skeletal muscles

Spinal deformities: kyphosis, lordosis, and scoliosis (S
curvature)

Osteoporosis: loss in height and the Dowager's hump

Fracture site related to osteoporosis

Comparison of (left) osteoarthritis and (right) rheumatoid
arthritis: hands and joints (Courtesy of Ruth Jones)

Hallus valgus (bunion)

Skeletal traction (Courtesy of Thomas Balanced
Suspension System, Zimmer Orthopaedic Surgical
Products, Inc., Hill-Rom A. Hillenbrand Industry)

Sprained ankle

Dislocation and subluxation

A. Normal intervertebral disk

B. Two views of a herniated disk

Carpal tunnel syndrome

Plantar fasciitis

A. Meniscus and anterior cruciate ligament tear

B. Cruciate ligaments

The different types of bone cells

The structure of a typical long bone. A. Diaphysis, epiphysis, and medullary cavity. B. Compact bone surrounding yellow bone marrow in the medullary cavity. C. Spongy bone and compact bone in the epiphysis.

Endochondral ossification where cartilage is the environment in which bone develops

The detailed structure of compact or dense bone

The classification of bones based on shape

The human skeletal system. A. Anterior view B. Posterior view

A. The paranasal sinuses. B. Cross-section of the ear showing the ossicles

The cranial bones

The facial bones

The hyoid bone (anterior view)

The characteristics of a typical vertebra

The vertebral column

A. Superior view of atlas (C1) and B. posterior-superior view of axis (C2)

The sternum, anterior view

Thoracic cage, anterior view

Scapula A. Anterior view B. Posterior view

The right humerus A. Anterior view B. Posterior view

Right radius and ulna. A. Anterior view B. Posterior view

The bones of the wrist and hand

Right hip

The femur A. Anterior view B. Posterior view

The tibia and fibula. A. Anterior view B. Posterior view

A. Right ankle and foot, lateral view B. Right ankle and foot, superior view

A. Right ankle and foot, lateral view B. Right ankle and foot, superior view

A. Structure of a typical long bone. B. Cross section of bone (B is from Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy, by R. Bergman, A. Afifi, P. Heidger, 1999, www.vh.org/Providers/Textbooks/MicroscopicAnatomy.html. Reprinted with permission.)

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Bone shapes

The axial skeleton (blue) and appendicular skeleton

Bones and sutures of the skull

A. Lateral view of the spine

B. view of the atlas C. view of the axis

A typical vertebra

Ribs and sternum

Radius and ulna

The 27 bones of the left hand

Comparison of the male and female pelvises

Anterior/posterior view of the femur

The foot--dorsal view

Types of joints: A. a synarthrosis, an immovable fibrous joint (cranial bones)

Types of joints: B. an amphiarthrosis, a slightly movable cartilaginous joint (C-F) diarthroses, freely movable hinge or ball-and-socket joints

Joint movements

Comparison of normal bone tissue to that of osteoporosis

Types of fracture

Osteoporosis

Joint damage due to arthritis

A. Kyphosis B. lordosis, C. scoliosis

Wound botulism involvement of a compound fracture of the right ulna (Courtesy of the CDC)

Origin and insertion points of a muscle

Muscles of the head and neck

Muscles of the upper extremities. A. Front

Muscles of the upper extremities. B. Back

Muscles of the lower extremities. A. Front

Muscles of the lower extremities. B. Back
Rotator cuff tear
Fibrous joint

Cartilaginous joint

Synovial joint and bursa
Hinge joint

Ball-and-socket joint

Movements of joints

Bunion

Ganglion

Herniated disk

Osteoarthritis

Rheumatoid hand deformity

Butterfly rash often seen in systemic lupus erythematosus

Arthroscopy of the knee. A. Arthroscope in use

Arthroscopy of the knee. B. Internal view of the knee during arthroscopy

Blocking receptor sites in myasthenia gravis

The structure of a synovial joint

Movements of synovial joints A. Flexion/extension and hyperextension B. Abduction/adduction C. Circumduction

Movements at synovial joints. A. Pronation/supination B. Eversion/inversion C. Protraction/retraction D. Depression/elevation E. Dorsiflexion/plantar flexion

The six types of freely moving diarthroses or synovial joints

The structure of the uniaxial hinge joint of the knee

The anatomy of skeletal muscle at the microscopic, cellular, and molecular levels.

Ionic and neuroelectrical factors affecting the skeletal muscle cell

The structure of the actin and myosin myofilaments of a muscle cell. A. Myosin molecule B. Myosin myofilament C. Actin myofilament

The interaction of the activated myosin cross-bridges with the actin filaments pulling the actin in among the myosin, resulting in contraction

The sodium-potassium pump of the membrane of a muscle cell

The superficial muscles of the body (anterior view)

The superficial muscles of the body (posterior view)

The superficial muscles of the body (posterior view)

Some muscles of the head and neck (anterior view)

Some muscles of the head and neck (lateral view)

Muscles that move the arms and fingers: A. anterior view B. posterior view

Superficial muscles of the leg: A. Anterior view B. Posterior view

Voluntary or striated (skeletal) muscle cells (Photo is from Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy, by R. Bergman, A. Afifi, P. Heidger, 1999, www.vh.org/Providers/Textbooks/MicroscopicAnatomy.html. Reprinted with permission.)

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Involuntary or smooth muscle cells (Photo is from Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy, by R. Bergman, A. Afifi, P. Heidger, 1999, www.vh.org/Providers/Textbooks/MicroscopicAnatomy.html. Reprinted with permission.)

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Cardiac muscle cells (Photo is from Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy, by R. Bergman, A. Afifi, P. Heidger, 1999, www.vh.org/Providers/Textbooks/MicroscopicAnatomy.html. Reprinted with permission.)

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Coordination of prime mover and antagonistic muscles

A neuron stimulating muscle

Principal skeletal muscles of the body--posterior view

Head and neck muscle arrangement

Muscles of the upper extremity

Muscles of the trunk

Muscles of the lower extremity

Tennis elbow

Divisions of the nervous system

The neuron

Neuroglia cells

The meninges

Structures of the brain. A. Front view of the brain

Structures of the brain. B. Lateral cross-section of the brain

Shingles--vesicles follow a nerve pathway. (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Meningocele

Meningomyelocele

Spina bifida occulta

Coronal image of abdomen acquired during a breath hold in this magnetic resonance image.

PET scan shows that cocaine binds to specific brain locations primarily at dopamine-uptake sites (From "Addiction Brain Mechanisms and Their Related Implications," by D.J. Nutt, 1996, The Lancet, 347, pp. 33-35)

The nervous system

The cerebral lobes and their specialized functions

The cerebral lobes and their specialized functions

Spinal nerves and dermatomes

CVA: prognosis for individuals affected by CVA/stroke
Symptoms of right and left CVA vary to some degree

Facial appearance of Bell's palsy

Coup and contracoup lesions

Common sites and types of skull fractures

A. Epidural and B. Subdural hematoma

Spinal cord injuries

Parkinson's disease

Divisions of the nervous system

Types of neuroglia found in the CNS: astrocytes,
oligodendroglia, microglia, and ependymal cells

Two types of structural neurons A. Multipolar B. Unipolar

A section of an axon from the peripheral nervous system
with its myelin sheath, a fatty substance made by
Schwann cells

The sodium-potassium pump of a nerve cell's
membrane

The electrical distribution surrounding a nerve fiber and
transmission of a nerve impulse.

The release of a neurotransmitter molecule by a presynaptic neuron into the synaptic cleft, transmitting the nerve impulse to the postsynaptic neuron.

The basic pathway of a reflex arc, as illustrated by the knee-jerk reflex

The anatomy of the spinal meninges and the spinal cord

The names and emergent levels of the 31 spinal nerve cords.

The principal parts of the brain.

The ventricles of the brain, the cranial meninges, and the flow pattern of the cerebrospinal fluid.

A. The parts of the brain. B. Areas of brain function

The anatomy of the right and left cerebral hemispheres (frontal section)

The nerve pathways of the sympathetic division of the autonomic nervous system

The nerve pathways of the parasympathetic division of the autonomic nervous system

The cranial nerves are named by Roman numerals or by name indicating distribution or function

A. The olfactory area in the nose formed by the superior nasal conchae. B. Columnar epithelial cells support olfactory receptor cells with cilia at their ends.

A. Taste buds on the surface of the tongue are associated with elevations called papillae. B. A taste bud contains taste cells with an opening called the taste pore at its free surface. Colored sections indicate common patterns of taste receptors: C. Sweet D. Sour E. Salt F. Bitter

The anatomy of the eye, transverse view

The layers of the retina illustrating the rods and cones and other cellular layers.

The external, middle, and inner ear and their organs

Sequence of events in membrane potential and relative positive and negative states: A. normal resting potential (negative inside/positive outside); B. depolarization (positive inside/negative outside); and C. repolarization (negative inside/positive outside).

Cross section of the brain

Cross section of the brain (Courtesy of Theodore King, University of Wisconsin, Milwaukee, WI)

Meninges: Membranes that surround the brain and spinal cord

Circulation of the cerebrospinal fluid

Lateral view of the brain

Brain functions

The limbic system

The brainstem

Cross sections of the spinal cord (B is from Atlas of Microscopic Anatomy: A Functional Approach: Companion to Histology and Neuroanatomy, by R. Bergman, A. Afifi, and P. Heidger, 1999, www.vh.org/Providers/Textbooks/MicroscopicAnatomy.html. Reprinted with permission.)

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The peripheral nervous system connects the central nervous system to structures of the body

Spinal nerve plexus and important nerves

A. The sympathetic division of the autonomic nervous system. B. The parasympathetic division of the autonomic nervous system.

In this example, tapping the knee (patellar tendon) results in extension of the leg, producing the knee-jerk reflex

Concussion

Contusion

Epidural hematoma. The arrows indicate a shift in the position of the brain.

Cryptococcosis of the lung in a patient with AIDS

Neuron

A. A ventriculoatrial shunt drains spinal fluid into the heart.

B. The ventriculoperitoneal shunt drains spinal fluid into the abdomen.

Streptococcus pneumoniae bacteria
Dogs with rabies (Courtesy of CDC)

Subdural hematoma

Formed elements of the blood

Regular and sickled red blood cells

Lymphatic ducts and nodes

Severe hypersensitive reaction to Amoxicillin in 13-month old child, 4th day

Severe hypersensitive reaction to Amoxicillin in 13-month old child, 5th day

Severe hypersensitive reaction to Amoxicillin in 13-month old child, 6th day

Kaposi's sarcoma (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Immunity--lines of defense

Acute inflammation--cellular and vascular response

Organs of the immune system

Classification of hypersensitivity disorders

Positioning in an asthma attack

Urticaria (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Ulnar deviation from rheumatoid arthritis

Joint changes from rheumatoid arthritis

Rheumatoid nodules

Blood types for donors and recipients

Blood type in inheritance patterns and identification of possible Rh reactions

Diseases associated with AIDS

Sickled erythrocytes (Courtesy of Philips Electronic Instrument Company)

Multiple myeloma--extensive bone destruction caused by disease

The lymphatic system

Exchange of fluids between the lymph and blood vessels

The classification of blood cells

Hematopoiesis begins with stem cells (hematocytoblasts) in red bone marrow.

The life span and functions of blood cells

The stages of blood clotting

The vessels and organs of the lymphatic system

A. Diagrammatic view of lymphatics transporting fluid from interstitial spaces to the bloodstream. B. Lymph capillaries begin as blind-end tubes next to tissue cells and blood capillaries

A. The relationship between lymph capillaries and tissue cells and blood vessels. B. Detail of a lymphatic capillary and tissue cells.

Lymph node. A. Section through a lymph node showing the flow of lymph. B. Microscopic detail of bacteria being destroyed within the lymph node.

Internal anatomy of a lymph node showing germinal centers and sinuses.

The principal lymphatic trunks of the body

Lymphatic trunks pass their lymph into two main collecting ducts, the thoracic duct, and the right lymphatic duct. These ducts empty into the left and right subclavian veins, respectively.

External view of the spleen

Overview of the body's defense mechanisms.

Cellular elements of the blood

Cellular and vascular response to inflammation

Blood-clotting process

Lymph circulation

Lymph nodes and lymph vessels found in the head

Scleroderma (Courtesy of the Scleroderma Foundation, www.scleroderma.org)

HIV budding from lymphocyte (Courtesy of the CDC Public Health Image Library)

A. Side view of normal red blood cells, which have a concavity (or dent) on the two sides

B. sickle-shaped (crescent-shaped) red blood cells
A series of damages and effects caused by sickle cell anemia

Components of blood

Life cycle of *Trypanosoma brucei gambiense* and *Trypanosoma brucei rhodesiense*

Immune system defenses

A. Section through a lymph node, showing the flow of lymph. B. Microscopic detail of bacteria being destroyed within the lymph node.

Blood cells

Effects of sickle cell anemia

Four-month-old with gangrene due to meningococemia (Courtesy of the CDC, Mr. Gust)
Apex/base of the heart

Linings and layers of the heart

Blood flow pattern through the heart

Pulmonary and systemic circulation

The coronary arteries

Conduction system of the heart

Balloon angioplasty (PTCA)

Directional coronary atherectomy

Coronary artery bypass surgery

Surgical repair of an abdominal aneurysm

Common sites for peripheral arterial occlusive disease

Superficial versus deep veins in development of phlebitis
and thrombus

Varicose veins (venous star)

Coarctation of the aorta

Patent ductus arteriosus

Tetralogy of Fallot

Pulse points of the body
Standard chest lead placements for EKG
Quest Exercise Stress System (Courtesy of Spacelabs
Medical, Inc.)

Holter monitor

Valves affected in rheumatic fever

The heart: four chambers and great vessels

The conduction system

Pulse points of the body
The circulatory system

Cardiac catheterization

Arteriogram

Mortality statistics comparing cardiovascular diseases to
other diseases

Systolic and diastolic blood pressure

Atherosclerosis: narrowing of arterial lumen

Atherosclerosis: major areas affected

Three types of aneurysm

A. Abdominal aneurysm surgical resection and B. grafting

Coronary artery angioplasty

Coronary artery bypass graft (CABG)

Patterns of angina

Myocardial infarction: areas of ischemia

Signs of congestive heart failure

The position of the heart in the mediastinum between the two lungs

The layers of the pericardial sac (left) and the layers of the walls of the heart (right)

The walls of the heart

The interior of the heart. A. Cross-section of the heart showing the chambers, valves, septum, chordae, tendineae, and vessels B. Superior view of valves

Schematic drawing of blood flow through the heart showing pulmonary and systemic circulation

The conduction system of the heart

The three layers of the walls of arteries and veins
The major arteries of the systemic circulation

The major veins of the body
General or systemic circulation

Schematic of heart pulmonary circulation
The human heart (Photo courtesy of Oak Ridge National
Laboratory, Oak Ridge, TN)
The human heart (Photo courtesy of Oak Ridge National
Laboratory, Oak Ridge, TN)

The heart and its valves

Physiology of the heart

Cardiac cycle and ECG reading

Cardiac catheterization

Balloon angioplasty

Coronary bypass

Pacemaker

Cardiopulmonary circulation

Arteries deliver oxygenated blood to capillaries, and,
once the oxygen has been extracted, the blood is
returned to the venous system.

Blood flow into, around, and out of the heart

The systemic, pulmonary renal, and portal blood circuits

Arterial distribution

Different types of blood vessels and their cross-sectional views

Venous distribution

Valves in the veins

Pulse points/pressure points

Arteries affected by and resulting complications of atherosclerosis

Stroke is caused by a sudden blockage of blood to the brain, thus depriving an area of the brain of oxygen

A ruptured aortic aneurysm. (Courtesy of the CDC, Susan Lindsley)

Arterial system

Cardiopulmonary circulation

Arteries and veins of the heart

Stroke due to a blockage in the blood vessel in the neck

Stroke due to rupture of blood vessel in the brain

Structures of the heart

Veins of the body

Atherosclerosis of the aorta (Courtesy of the CDC, Dr. Edwin P. Ewing, Jr.)

Congestive heart failure in a 28-year-old female due to chronic high blood pressure (Courtesy of the CDC, Dr. Thomas Hooten)

Bacterial infection of the lining of the heart (Courtesy of the CDC, Dr. Edwin P. Ewing, Jr.)

Pathway of air from nose to alveoli

The lungs and supporting structures

Position of diaphragm during (A) inhalation and (B) expiration

Technique of light palpation

Auscultation with bell of stethoscope

Percussion strike

Streptococcal pharyngitis (Courtesy of the Centers for Disease Control and Prevention)

Emphysema

Pleural effusion

Pneumothorax

Fiber optic bronchoscopy

Posteroanterior view of chest

Thoracentesis

The respiratory system

Airway divisions and terminal bronchiole/alveoli

Gas exchange in the lungs and tissues

Clubbing (Courtesy of Robert A. Silverman, MD,
Pediatric Dermatology, Georgetown University)

Bronchoscopy

Spirometry: used for pulmonary function tests (Voldyne
5000 Incentive Spirometer. Photo courtesy of Hudson,
RCI. Voldyne is a registered trademark of Hudson RCI)

Frequency of infectious diseases
Normal versus emphysematous alveoli

Pursed lips and barrel chest of emphysema
Pneumonia: alveoli filling with fluid

Pulmonary abscess
Tuberculosis
Pneumothorax

Pulmonary emboli

Respiratory ventilator (Courtesy Draeger Medical, Inc.,
Telford, PA)

The organs of the respiratory system
Sagittal view of the nasal cavity and pharynx

The larynx

The trachea, bronchi, and bronchioles. A. Anatomy of the trachea and bronchial tree. B. End of the bronchial tree showing the terminal bronchioles, alveolar duct, and alveoli.

The branching bronchi and the lobes of the lungs

Anatomy of a lobule of a lung

The anatomy of an alveolus

The two phases of ventilation, inhalation, and exhalation

The respiratory pathway of oxygen and carbon dioxide

Male fetal pig with dissecting guides for incisions. Cut number 4 will expose the thoracic cavity.

Respiration

Pathway of external respiration: air enters through

Paranasal sinuses

Sagittal section of the face and neck

Larynx, trachea, and bronchial tree

A. Structures of the lungs (Photo courtesy of Oak Ridge National Laboratory, Oak Ridge, TN)

B. human lungs (Photo courtesy of Oak Ridge National Laboratory, Oak Ridge, TN)

Mechanics of breathing--inhalation and exhalation

Cross section of the brain

Lung capacity and volume

Bacillus anthrax (Courtesy of the Centers for Disease Control Public Health Image Library)

Cutaneous anthrax (Courtesy of the Centers for Disease Control Public Health Image Library)

Laryngeal stoma

Lungs of a coal worker with black lung disease (Courtesy of the CDC)

Flail chest: A. front, B. back, C. side

Lung alveoli fill with fluids

Respiratory tract

Respiration

Fried-egg appearance of mycoplasma

Sinuses

Phagocytosis of bacteria by a white blood cell

Alveolar hydatid disease in lung tissue (Courtesy of the CDC, Dr. Kagan)

The oral cavity

The stomach

The small and large intestine

The small and large intestine

The liver, gallbladder, and pancreas

Primary teeth

Permanent teeth

Layers of a tooth

Aphthous stomatitis (Courtesy of Dr. Joseph Konzelman,
School of Dentistry, Medical College of Georgia)

Diverticulitis

Hiatal hernia

Intussusception

Oral leukoplakia (Courtesy of Dr. Joseph Konzelman,
School of Dentistry, Medical College of Georgia)

Thrush (Courtesy of Dr. Joseph Konzelman, School of
Dentistry, Medical College of Georgia)

Volvulus

Hemoccult test

Cachexia (Reproduced by permission from R.P.
Rowlings, S.R. Williams, & C.K. Beck. Mental health--
Psychiatric nursing (3rd ed.), St. Lois, MO-Mosby-Year
Book, 1992)

Gastrostomy feeding

A. Sinus

B. fistula

Tuberculosis skin test

The digestive system

Upper GI; yellow area is visualized

Lower GI; yellow area is visualized

Esophagogastroduodenoscopy (EGD)

Gingivitis (inflamed gingiva)

Hiatal hernia

Peptic ulcers

Regional enteritis

Gastroenteritis

Hernias

Appendix

Colon blockage

Volvulus and intussusception

Volvulus and intussusception

Ulcerative colitis

Colostomy locations (blue section may be surgically removed if colostomy is permanent)

Diverticulosis/diverticulitis

Colon polyp

Hemorrhoids: internal and external

Liver, gallbladder, and pancreas

Hepatic portal system

Esophageal varices

Signs of cirrhosis of the liver

Cholelithiasis

The gastrointestinal tract, or alimentary canal, and its accessory organs

The tunics, or coats, of the alimentary tract

The anatomy of the tongue and oral cavity

The three types of papillae found on the tongue

The salivary glands

A. Deciduous teeth B. Permanent teeth. C. The anatomy of a typical tooth

The swallowing sequence into the esophagus

Swallowing. A. Bolus is pushed through the esophagus by peristaltic waves; lower esophageal sphincter is closed. B. Lower esophageal sphincter is open, and the bolus enters the stomach.

The anatomy of the stomach

The anatomy of the pancreas

The anatomy of the liver

Structures of the small intestine

Absorptive features of the small intestine A. Plicae
circulares B. Villi C. Microscopic anatomy of villus D.
Microvilli

The anatomy of the large intestine

Illustration of cuts to dissect the fetal pig. Follow the
dotted lines.

The organs of the thoracic and abdominal cavities of the
fetal pig. From Photo Atlas for Anatomy and Physiology,
by David Morton and James W. Perry, 1998, Belmont,
CA, Wadsworth)

Structures of the digestive system

The mouth and its structures

The three types of papillae found on the tongue

Dentition formulas for deciduous and permanent teeth

Permanent and deciduous teeth

Structure of the tooth

A. Parts of the stomach.

B. Three types of gastric gland cells which make up the gastric glands that line the stomach

The small intestine

Structures of absorption in the small intestine: A. plicae circulares; B. villi; and C. capillaries

Phases in the digestion of starch, fat, and protein

Liver, gallbladder, and pancreas

The large intestine

Overview of digestion

Appendicitis

Diverticulosis

Volvulus and intussusception

Gallstones

Hemorrhoids

Hepatitis B virus (Courtesy of the CDC)

Sites of a colostomy

Salivary glands

Adenocarcinoma of the colon
Rice-water stool due to cholera
Thrush on the tongue

Typhoid fever cholecystitis with an ulceration and perforation of the gallbladder into the intestine (Courtesy of the CDC and the Armed Forces Institute of Pathology, Charles N. Farmer)

Giardia lamblia parasites using indirect immunofluorescence test (Courtesy of the CDC, Dr. Visvesvara)

Strep throat (Courtesy of the CDC, Dr. Heinz F. Eichenwald)

The endocrine system

Pituitary gland

Pineal gland

Thyroid gland

Parathyroid glands

Thymus

Adrenal glands

Pancreas

Ovaries

Testes

Dwarfism

Cushing's syndrome: A. Before treatment (Courtesy of R. Jones)

Cushing's syndrome: B. After treatment (Courtesy of R. Jones)

Insulin pump

Insulin pump attached to abdomen (Compliments of Fred Caldwell)

The endocrine system

Gigantism and dwarfism. Right: A dwarf. Left: A giant. A normal-sized individual is in the center

Effects of hypopituitarism

Cretinism

Tetany of the hand and face: A. Chvostek's sign.

Tetany of the hand and face: B. Trousseau's sign

Effect of insulin on blood sugar. Insulin assists in moving sugar out of the blood and into the tissues, thus decreasing blood sugar levels. Think of insulin as "offering a hand" in pulling blood sugar levels down.

The relationship of the hypothalamus of the brain with the anterior lobe of the pituitary gland.

The relationship of the hypothalamus of the brain with the posterior lobe of the pituitary gland.

The endocrine glands and their locations in the body

The thyroid gland consists of a right and left lobe joined by the isthmus

The parathyroid glands. A. Position and B. their cellular components

The adrenal or suprarenal glands, found on top of each kidney, consist of an inner adrenal medulla and an outer adrenal cortex.

Glucose storage and conversion in the liver as a source of energy for the body

The location of the pineal gland

Fetal pig dissection guide. Perform cut number 2 to view the thymus and thyroid glands.

The throat and thoracic region of a dissected fetal pig.

Location of the endocrine glands

A. Exocrine gland B. endocrine gland

The pituitary gland in relation to the brain

Pituitary gland

The pituitary gland and its hormonal secretions

Thyroid gland

Effects of parathormone and calcitonin on the level of calcium in the blood

Location of adrenal glands and gonads

Location of islets of Langerhans

Dwarfism

Hyperthyroidism

Cushing's syndrome (Photo courtesy of Dr. Matthew Leinung, Acting Head, Division of Endocrinology, Albany Medical College, Albany, NY)

Perforating ulcer of the big toes (Courtesy of the CDC)

Graves' disease

Acromegaly (Courtesy of Matthew C. Leinung, MD, Acting Head, Division of Endocrinology, Albany Medical College, Albany, NY)

Front view of the eye

Lateral cross section of the eye

Blepharoptosis

Cataract (Courtesy of the National Eye Institute, NIH)

Ectropion

Entropion

Hordeolum (stye)

Hyperopia (farsightedness)

Myopia (nearsightedness)

Pterygium

Strabismus: A. convergent

Strabismus: B. divergent

Ophthalmoscopy

Structures of the ear

Pathway of sound vibrations

Rinne tuning fork test

Weber tuning fork test

Hearing aids: A. in-ear style, sound

Hearing aids: B. behind-ear style

The eyeball: cross-section view

The visual pathways of the eye

The ear

The Snellen chart

Otoscopy

Normal eye vision, myopia, hyperopia, presbyopia, and astigmatism

Radial keratotomy: A. Cross-section of the eye prior to surgery.

Radial keratotomy: B. Small incisions are made in the cornea from the middle outward.

Radial keratotomy: C. This causes the cornea to become flatter, thereby improving vision.

Cataract extraction with placement of intraocular lens.

Vascular changes caused by diabetic retinopathy

Vascular changes caused by diabetic retinopathy

Bulging tympanic membrane indicative of otitis media

Bulging tympanic membrane indicative of otitis media

Tympanoplasty

Tympanoplasty

Tympanoplasty

Stapedectomy with wire prosthesis

Retinal detachment

External view of the eye

Internal view of the eye

Extrinsic eye muscles

Flow of aqueous humor

Diagram of visual neurons showing rods and cones

Testing for the blind spot

Pathway of vision

Retinal detachment

Sty (Courtesy of Eye MAC Development, LLC, Green Bay, WI, www.eyemac.com)

Vision defects

The ear and its structures

Enlargement of the inner ear showing the three semicircular canals

Pathway of hearing

The nasal cavity

Gonorrheal infection of the eye (Courtesy of the CDC, Joe Miller)

Mucomycosis, fungal infection of the eye (Courtesy of the CDC, Dr. Thomas F. Sellers, Emory University)

Ophthalmia neonatorum (Courtesy of CDC, J. Pledger)

The urinary system

CT of the renal system, which shows the location of the urinary system organs

Nephron

Internal anatomy of the kidney

Location of the urinary bladder: A. male

Location of the urinary bladder: A. female

Urethra and urinary meatus

Urethra and urinary meatus

Major processes of urine formation

Flow chart of urine formation

Hydronephrosis

Polycystic kidney disease

Peritoneal dialysis

Continuous cyclic peritoneal dialysis

Hemodialysis

Arteriovenous fistula for hemodialysis

Kidney placement for renal transplant

Cystoscopy

Reagent strip immersed in urine sample

Crab-like appearance of cancer in a kidney.

The urinary system

Types of urinary catheterizations

Types of urinary catheterizations

Types of urinary catheterizations

Sites of urinary tract infections

Hydronephrosis

Types of location of renal calculi

Lithotripsy to treat kidney stones

Polycystic kidney

Areas of the body affected by toxic levels of circulating ammonia

Hemodialysis unit

Hemodialysis sites: AV shunts

Continuous cyclic peritoneal dialysis

Continuous cyclic peritoneal dialysis

Kegel exercises A. Before exercises, pelvic muscles are thin, the sphincter is weak, and the urethra cannot close.

Kegel exercises B. After exercises (3 months), the muscles are thicker and stronger, closing the sphincter

Collagen injection for incontinence

The organs of the urinary system

The internal anatomy of the kidney

The anatomy of a nephron, the functional unit of a kidney

The flow of materials from the filtered blood in the kidney

Blood flow through the kidney

The two ureters and the urinary bladder

The anatomy of the urinary bladder

Structures of the urinary system

Structures of the kidney

Nephron of the kidney

Processes and structures of the nephron

Lab reports showing normal values for a routine urinalysis

Effects of salt retention on water retention in tissues
A dialyzer

Peritoneal dialysis

Urinary system

Structures of the kidney

Swelling due to nephrosis (Courtesy of the CDC, Dr. Myron Schultz)

Male reproductive system

A. Palpating the testis

B. Assessing for penile discharge

Epispadias

Hypospadias

Indirect inguinal hernia
Varicocele

Genital herpes: A. in the male

Genital herpes: B. in the female

Primary syphilis: male
Circumcision: A. before the procedure
Circumcision: B. after the procedure
Vasectomy

The male reproductive system

Digital rectal exam

Normal and enlarged prostate. A. normal
Normal and enlarged prostate. B. benign prostatic
hypertrophy or hyperplasia (enlarged)

Transurethral resection of prostate

Cryptorchidism

Phimosis

The organs and ducts of the male reproductive system

The anatomy of a testis
The process of spermatogenesis, which occurs in a
seminiferous tubule

The anatomy of a sperm cell

Karyotype of human from a male somatic cell. A karyotype is the arrangement of chromosomes pairs according to shape and size.

Structures of the human sperm and ovum

Development of undifferentiated external genitalia into fully differentiated structures

Structures of the male reproductive system

Structure of the testis

Enlarged prostate

Chancroid infection (Courtesy of the CDC, Renelle Woodball)

Discharge from penis due to gonorrhea (Courtesy of the CDC, Susan Lindsley)

Epidermoid cyst occluding the urethra (Courtesy of the CDC, William R. Smart, San Rafael, California/Susan Lindsley)

Syphilis chancre

External genitalia, female reproductive system

Internal genitalia, female reproductive system

Visual appearance of the breast

Structure of the breast: A. anterior view; B. sagittal view

The female pelvis

Oral contraceptive packaging

Tubal ligation

Cystocele

Common sites of endometriosis

Breast self-examination

Breast self-examination

Breast self-examination

Breast self-examination

Breast self-examination

Colposcope 150 EC (Courtesy of Carl Zeiss Surgical, Inc.)

A. Dilatation and curettage

B. Enlarged view of curet

Laparoscopy

Mammography

Endocervical smear

Bimanual examination

The female reproductive system

The female reproductive system

Use of a speculum and obtaining a Pap smear

Laparoscopy

Mammography, needle aspiration, and incisional biopsy

Endometriosis

Ovarian cyst

Fibroid tumors

Uterine prolapse--varying degrees

Cystocele and rectocele

Types of mastectomy

The organs of the female reproductive system

The position of the ovaries, uterine tubes, uterus, and vagina of the female reproductive system

A microscopic view of an individual ovary and its internal anatomy

Oogenesis in the ovary

The menstrual cycle

The female external genitalia or vulva

The mammary glands of a lactating breast. A. Anterior view and B. sagittal view

Structures of the human sperm and ovum

Routes of the sperm and ovum

Placement of the female reproductive system in the lower pelvic cavity

Structures of the female reproductive system

Structures of the female reproductive system

External female genitalia

Sagittal section of the female breast

The menstrual cycle

An ovary showing the development of an ovum in a graafian follicle

Breast cancer complications after a mastectomy
(Courtesy of the CDC, Robert S. Craig)

Genital warts

Female reproductive system

Genital warts (Courtesy of the CDC)

Amniotic sac
Placenta and umbilical cord
Changes in the uterus during pregnancy

Example of supine hypotension

Changes in posture due to pregnancy: A. 6 weeks

Changes in posture due to pregnancy: B. 40 weeks

Linea nigra with striae gravidarum
Fetoscope used to hear fetal heartbeat
Doppler

Lithotomy position
Lordosis
Example of placenta previa

Dilatation and effacement of the cervix

Amniocentesis
Pelvic ultrasound

A. Normal uterine pregnancy.

B. Abruption placentae.

C. Placenta previa

Sites of ectopic pregnancy

The early developmental stages of the embryo showing
germ layers, chorionic villi, and other structures.

The stages of labor. A. Position of the fetus prior to labor. B. First stage of labor, cervical dilation. C. Second stage of labor, fetal delivery. D. Third stage of labor, placental delivery.

Fertilization

Growth of an embryo into a fetus once fertilization has occurred

Development of undifferentiated external genitalia into fully differentiated structures

Possible sites of implantation in ectopic pregnancy

Measuring weight in the infant

Measuring head circumference

Recumbent length in infant

Cephalocaudal and proximodistal development
(Courtesy of Vickie Rikard)

Deciduous and permanent teeth

Comparison of A. normal size ventricles and B. enlarged ventricles associated with hydrocephalus

Varicella (chickenpox) (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Erythema infectiosum (Fifth disease) (Courtesy of Sandra Isenhower)

Impetigo (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Mumps (parotitis) (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Rubella (Courtesy of the Centers for Disease Control and Prevention)

Rubeola (Courtesy of the Centers for Disease Control and Prevention)

Scarlet fever (Courtesy of the Centers for Disease Control and Prevention)

A. Cleft lip (Courtesy of Dr. Joseph Konzelman, School of Dentistry, Medical College of Georgia)

B. Cleft palate (Courtesy of Dr. Joseph Konzelman, School of Dentistry, Medical College of Georgia)

Dwarfism

Untreated hydrocephalus (Courtesy of Russell Cox, MD, Gastonia, NC)

Umbilical hernia (Compliments of Melissa Johnson)

Umbilical hernia (Compliments of Melissa Johnson)

Capillary heel puncture

Application of a pediatric urine collector on a female
Maculopapular rash in rubeola (Courtesy of the Centers for Disease Control and Prevention)

Koplik's spots in the throat of a child with rubeola (Courtesy of the Centers for Disease Control and Prevention)

Rubella rash (Courtesy of the Centers for Disease Control and Prevention)

Macula rash in varicella (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Rubella virus causes German measles (Courtesy of the CDC)

A. Normal cells. B. Measles virus in cells (Courtesy of Pfizer, Inc.)

Monkeypox lesions on the arm and leg (Courtesy of the CDC)

German measles (Courtesy of the CDC)

Koplik's spots in the mouth due to measles (Courtesy of the CDC)

Deformity of the right leg due to poliovirus infection (Courtesy of the CDC)

Angiogram of abdomen

Barium swallow (upper GI series)

PTHC with common bile duct obstruction

ERCP with stones

Computed tomography (CT) scanning. Instruct patient to lie still.

Instruct patient to breathe deeply and relax during procedure. Reassure patient that whirring and clicking sounds are normal.

MRI of a brain with the area of a "bleed" visible in the lower right

Mammography: A. positioning for Cleopatra view

Mammography: B. Cleopatra view radiograph

Posteroanterior (PA) lumbar myelogram

PET body scan demonstrates tumor in the right lung

Complete bone scan

Fifteen-minute radiograph of small bowel study

Ultrasonography

Anteroposterior (AP) view of the chest

Basal cell carcinoma (Courtesy of Robert A. Silverman, MD, Pediatric Dermatology, Georgetown University)

Peau d'orange (Courtesy of Dr. S. Eva Singletary, University of Texas, Anderson Cancer Center, Houston, TX)

Modified radical mastectomy (Courtesy of Dr. Steven M. Lynch)

Kaposi's sarcoma (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Malignant melanoma (Courtesy of Robert A. Silverman, MD, Clinical Associate Professor, Department of Pediatrics, Georgetown University)

Squamous cell carcinoma (Courtesy of Dr. Joseph Konzelman, School of Dentistry, Medical College of Georgia)

Normal cell versus atrophied cell

Normal cell versus hypertrophied cell.

Normal tissue versus hyperplasia

Normal tissue versus metaplasia

Normal tissue versus dysplasia

Normal tissue versus neoplasia

Classification of neoplasms

Cellular growth patterns

The process of cell differentiation

Comparison of hyperplasia and neoplasm

Normal, carcinoma in situ, and carcinoma

Cellular changes progressing to neoplasm

Tissue biopsy

Tissue biopsy

Facial tumor due to malignant Burkitt's lymphoma
(Courtesy of the CDC, Robert S. Craig)

Cervical carcinoma

Physicians' Desk Reference (PDR)

Drug sources

Oral medications

Medications by inhalation

Suppositories

Transdermal delivery system

Parenteral medications

Surface and slice images of the brain of a patient with
schizophrenia (Courtesy of D. Silbersweig, MD, and E.
Stern, MD, Functional Neuroimaging Laboratory, The
New York Hospital-Cornell Medical Center)

Draw-a-person (DAP) test

Basil cell carcinoma (Courtesy of Robert A. Silverman,
M.D., Pediatric Dermatology, Georgetown University)

Transparent appearance of aging skin

Location of hip fractures

Structural changes due to osteoporosis

Bunion

Osteoarthritis (knee joint)

Emphysema

Cataract (Courtesy of the National Eye Institute, NIH)

Ectropion

Entropion

Coronary artery bypass surgery

Directional coronary atherectomy

Hearing aids: A. in-ear style

Hearing aids: B. behind-ear style

Internal fixation device

Balloon angioplasty

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