

## **Pathophysiology Topics**

### **Common Physiology and Conditions**

#### **Definition**

**Cellular/physiological basis**

**Remarkable signs and symptoms**

### **NERVOUS SYSTEM PHYSIOLOGY**

### **NERVOUS SYSTEM CONDITIONS**

#### **Chronic Degenerative Disorders**

Alzheimer disease

Amyotrophic lateral sclerosis

Huntington disease

Peripheral neuropathy

#### **Movement Disorders**

Dystonia

Parkinson disease

Tremor

#### **Infectious Disorders**

Encephalitis

Herpes zoster

Meningitis

Polio (Postpolio syndrome)

#### **Psychiatric Disorders**

Addiction

Anxiety disorders

Attention deficit hyperactivity disorder

Autism spectrum disorder

Bipolar disorder

Depression

Eating disorders

Obsessive-compulsive and related disorders

Trauma and stressor-related disorders

#### **Nervous System Injuries**

Bell palsy

Complex regional pain syndrome

Spinal cord injury

Stroke

Traumatic brain injury

Trigeminal neuralgia

#### **Nervous System Birth Defects**

Spina bifida

Cerebral palsy

## **Other Nervous System Conditions**

Fibromyalgia  
Headaches  
Meniere disease  
Seizure disorders  
Sleep disorders  
Vestibular balance disorders

## **MUSCULOSKELETAL SYSTEM PHYSIOLOGY**

### **MUSCULOSKELETAL CONDITIONS**

#### **Muscle Disorders**

Muscular Dystrophy  
Spasms, cramps  
Strains

#### **Bone Disorders**

Osteosarcoma  
Osgood-Schlatter disease  
Osteoporosis  
Postural deviations

#### **Joint Disorders**

Adhesive capsulitis  
Baker cysts  
Gout  
Joint disruptions  
Joint replacement surgery  
Lyme disease  
Osteoarthritis  
Patellofemoral pain syndrome  
Spondylolisthesis  
Spondylosis  
Sprains  
Temporomandibular joint dysfunction

#### **Fascial Disorders**

Compartment syndrome  
Dupuytren contracture  
Ganglion cysts  
Hammer toe  
Hernia  
Morton neuroma  
Plantar fasciitis  
Pes planus, pes cavus

#### **Neuromuscular Disorders**

Carpal tunnel syndrome  
Disc disease (Herniation etc.)  
Myofascial pain syndrome  
Thoracic outlet syndrome

### **Other Connective Tissue Disorders**

Bunions  
Bursitis  
Shin splints  
Tendinopathies  
Whiplash

## **IMMUNE SYSTEM AND LYMPHATIC SYSTEM PHYSIOLOGY**

### **IMMUNE SYSTEM AND LYMPHATIC CONDITIONS**

#### **Lymph System Conditions**

Edema  
Lymphangitis  
Lymphoma  
Mononucleosis

#### **Immune System Conditions**

Allergic reactions  
Chronic fatigue syndrome  
Fever  
HIV/AIDS

#### **Autoimmune Disorders**

Ankylosing spondylitis  
Crohn disease  
Lupus  
Multiple sclerosis  
Psoriasis  
Rheumatoid arthritis  
Scleroderma  
Ulcerative colitis

## **CARDIOVASCULAR SYSTEM PHYSIOLOGY**

### **CARDIOVASCULAR SYSTEM CONDITIONS**

#### **Blood Disorders**

Anemia  
Embolism, thrombus  
Hemophilia  
Leukemia  
Myeloma  
Sickle cell disease  
Thrombophlebitis, deep vein thrombosis

#### **Vascular disorders**

Aneurysm  
Atherosclerosis  
Hypertension  
Raynaud syndrome  
Varicose veins

## **Heart Conditions**

Heart attack  
Heart failure

## **ENDOCRINE SYSTEM PHYSIOLOGY**

### **ENDOCRINE SYSTEM CONDITIONS**

Diabetes mellitus  
Hyperthyroidism  
Hypothyroidism  
Metabolic syndrome  
Thyroid cancer

## **DIGESTIVE SYSTEM PHYSIOLOGY**

### **DIGESTIVE SYSTEM CONDITIONS**

#### **Disorders of the Upper Gastrointestinal Tract**

Celiac disease  
Esophageal cancer  
Gastroenteritis  
Gastroesophageal reflux disorder  
Peptic ulcers  
Stomach cancer

#### **Disorders of the Large Intestine**

Colorectal cancer  
Diverticular disease  
Irritable bowel syndrome

#### **Disorders of the Accessory Organs**

Cirrhosis  
Gallstones  
Hepatitis  
Liver cancer  
Pancreatic cancer  
Pancreatitis

#### **Other Digestive System Conditions**

Candidiasis

## **RESPIRATORY SYSTEM PHYSIOLOGY**

### **RESPIRATORY CONDITIONS**

#### **Infectious Respiratory Disorders**

Acute bronchitis  
Common cold  
Influenza  
Pneumonia  
Sinusitis  
Tuberculosis

#### **Chronic Obstructive Pulmonary Disease**

Chronic bronchitis  
Emphysema

#### **Other Respiratory Disorders**

Asthma  
Cystic fibrosis  
Laryngeal cancer  
Lung cancer

## **URINARY SYSTEM PHYSIOLOGY**

### **URINARY SYSTEM CONDITIONS**

Kidney Disorders  
Kidney stones  
Polycystic kidney disease  
Pyelonephritis  
Renal cancer  
Renal failure

#### **Bladder and Urinary Tract Disorders**

Bladder cancer  
Interstitial cystitis  
Urinary tract infection

## **REPRODUCTIVE SYSTEM PHYSIOLOGY**

### **REPRODUCTIVE SYSTEM CONDITIONS**

#### **Disorders of the Uterus**

Cervical cancer  
Dysmenorrhea  
Endometriosis  
Fibroid tumor  
Uterine cancer

### **Disorders of Other Female Reproductive Structures**

Breast cancer  
Ovarian cancer  
Ovarian cysts

### **Disorders of the Male Reproductive System**

Benign prostatic hyperplasia  
Prostate cancer  
Prostatitis  
Testicular cancer

### **Other Reproductive System Conditions**

Menopause  
Pregnancy  
Premenstrual syndrome  
Sexually transmitted infections

## **INTEGUMENTARY SYSTEM PHYSIOLOGY**

## **INTEGUMENTARY SYSTEM CONDITIONS**

### **Contagious Skin Disorders**

Animal parasites  
Fungal infections  
Herpes simplex  
Staphylococcal infections  
Streptococcal infections  
Warts

### **Noncontagious Inflammatory Skin Disorders**

Acne rosacea  
Acne vulgaris  
Dermatitis, eczema

### **Neoplastic Skin Disorders**

Seborrheic keratosis  
Skin cancer

### **Skin Injuries**

Burns  
Decubitus ulcers  
Scar tissue