

ANATOMY and PHYSIOLOGY

"The study of **structure** and **function** of the body"

ANATOMY

- *Ana means "apart" Tomy means "to cut"*
- *The scientific discipline that investigates the **STRUCTURE** of the body*
- *Systemic Anatomy- by **SYSTEM**.*
- *Regional Anatomy- by **AREAS**.*
- *Surface Anatomy- external features*
- *Anatomical Imaging- involves the use of X-Ray, MRI, Ultrasound, etc.*

PHYSIOLOGY

- *The scientific discipline that deals with the processes or **FUNCTIONS** of living things*

Structural and Function Organizational of the Body

The Major Goals of Physiology

1. *To understand and predict the body's responses to stimuli*
2. *To understand how the body part works*

1. CHEMICAL LEVEL

- simplest level of the structural ladder
- includes atoms and molecules
- Ex: Deoxyribonucleic Acid (DNA) & Glucose

2. CELLULAR LEVEL

- basic structural and functional units of an organism that are composed of chemical.
- **CYTOLOGY**- study of the microscopic appearance of cell
- Ex: Muscle Cell, Nerve Cell, Epithelial Cell

3. TISSUE LEVEL

- group of cell that perform the same function
- **HISTOLOGY**- study of tissues
- **4 TYPES OF TISSUE**
- 1. Epithelial Tissue- covers body surface; lines hollow organs and cavities and forms glands.
- 2. Connective Tissue- connects, supports and protects body organs while distributing blood vessels to other tissue
- 3. Muscle Tissue- contracts to make body part move and generates heat
- 4. Nervous Tissue- carries information through nerve impulses

Anatomy And Physiology Chapter One

Seeley



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Air Force Manual United States. Department of the Air Force,1965 **Chapter One** ,1990 *Air Force AFM.* ,1965

The Outlines of Anatomy, Physiology, and Hygiene Roger Sherman Tracy,1889 **Pathophysiology** Kathryn L. McCance, RN, PhD,Sue E. Huether, RN, PhD,2014-01-14 With easy to read in depth descriptions of disease disease etiology and disease processes Pathophysiology The Biologic Basis for Disease in Adults and Children 7th Edition helps you understand the most important and the most complex pathophysiology concepts More than 1 200 full color illustrations and photographs make it easier to identify normal anatomy and physiology as well as alterations of function This edition includes a NEW Epigenetics and Disease chapter along with additional What s New boxes highlighting the latest advances in pathophysiology Written by well known educators Kathryn McCance and Sue Huether and joined by a team of expert contributors this resource is the most comprehensive and authoritative pathophysiology text available Over 1 200 full color illustrations and photographs depict the clinical manifestations of disease and disease processes more than in any other pathophysiology text A fully updated glossary includes 1 000 terms and makes lookup easier by grouping together similar topics and terms Outstanding authors Kathryn McCance and Sue Huether have extensive backgrounds as researchers and instructors and utilize expert contributors consultants and reviewers in developing this edition Chapter summary reviews provide concise synopses of the main points of each chapter Consistent presentation of diseases includes pathophysiology clinical manifestations and evaluation and treatment Lifespan content includes ten separate pediatric chapters and special sections with aging and pediatrics content Algorithms and flowcharts of diseases and disorders make it easy to follow the sequential progression of disease processes Nutrition and Disease boxes explain the link between concepts of health promotion and disease EXTENSIVELY Updated content reflects advances in pathophysiology including tumor biology invasion and metastases the epidemiology of cancer diabetes mellitus insulin resistance thyroid and adrenal gland disorders female reproductive disorders including benign breast diseases and breast cancer and a separate chapter on male reproductive disorders and cancer NEW Chapter on epigenetics and disease Additional What s New boxes highlight the most current research and clinical development **Skeletal Muscle Structure, Function, and Plasticity** Richard L. Lieber,2002 In its Second Edition this text addresses basic and applied physiological properties of skeletal muscle in the context of the physiological effects from clinical treatment Many concepts are expanded and recent studies on human muscle have been added This new edition also includes more clinically relevant cases and stories A two page full color insert of muscle sections is provided to ensure integral understanding of the concepts presented in the text Anyone interested in human movement analysis and the understanding of generation and control from the musculoskeletal and neuromuscular systems in implementing movement will find this a valuable resource *A Complete Handbook for Professional Ambulance Personnel* Stephen Cripwell Morris,1970 Mosby's Massage Therapy Review - E-Book Sandy Fritz,2009-06-16 No other

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