

human physiology workbook

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Intro

Questions

How to Study

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Introduction

History of Anatomy

Physiology: How Parts Function

Complementarity of Structure & Function

Hierarchy of Organization

Directional Terms

Review

Credits

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Analogy between computer and human body

Every function is an outcome of many processes

What is Physiology?

Physiology word origin

Levels of Organization

Medical Physiology: Foundation of Modern Medicine

Physiology is an experimental science

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Introduction

Blood Functions Transportation of nutrients, gases, wastes, hormones Regulation of pH Restriction
of fluid loss during injury Defense against pathogens and toxins Regulation of body temperature
Red Blood Cells Erythrocytes are shaped like biconcave discs Erythrocytes Hemoglobin is the main
protein at work - Like an oxygen raft - Oxyhemoglobin vs. deoxyhemoglobin Last up to 4 months 1-3
million new RBCs enter the blood stream per second!

Breakdown and Renewal of RBCs In the liver, spleen, or bone marrow RBCs are engulfed and they
hemolyze (rupture) Hemoglobin is broken down - Biliverdin ' Bilirubin Erythropoiesis makes new RBCs
(with EPO)

White Blood Cells Leukocytes come in many varieties and have incredible abilities to defend the body
- Can migrate out of the blood stream - Have amoeboid movement - Attracted to specific stimuli -
Most do phagocytosis

Neutrophils (50-70% of WBCs) - Swallow up foreign invaders - The "front lines" Eosinophils (2-4%
of WBCs) - Attack objects w/ antibodies - Great at attacking parasites - Increase in # during allergic
Monocytes (2-8% of WBCs) - Largest of WBCs - Great at endocytosis (engulfing) - Circulates for -24
hrs, then becomes tissue macrophage Lymphocytes (20-30% of WBCs) - Circulate in blood, but also
hang out in lymphatic organs - T cells - B cells - Natural killer cells

Platelets Thrombocytes look like pieces of a shattered plate! . These cells have many important roles
related to clotting blood: - Release chemicals to help clots occur - Form a temporary patch on walls
of damaged

Vascular Phase - Vascular spasm = decreases diameter - Endothelial cells release chemical factors
Platelet Phase - Platelet plug - Release of more chemicals (ADP, clotting factors) Coagulation (Blood
clotting) Phase - In addition to platelets, fibrinogen is converted to fibrin to form a net-like structure •
Fibrinolysis Clot removal

Hemorrhage Thrombus Embolism Anemia Sickle cell disease Hemophilia Leukemia

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How the Body Is Organized from Least Complex to Most Complex

Cytoskeleton

Endoplasmic Reticulum
 Diffusion
 Types of Tissue
 .Which Type of Muscle Tissue Is Attached to Bones
 Muscle Tissue
 Respiratory
 What Is the Ventral Cavity Subdivided into the Thoracic Cavity and Abdominal Pelvic Cavity
 Medulla
 Where Is the Heart in Relation to the Vertebral Column
 Special Senses
 How Many Quadrants Are in the Abdominal Pelvic Cavity
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