

human physiology workbook

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Intro

Questions

How to Study

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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 Enucleated 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

100 Questions on the Introduction to Anatomy and Physiology, Cells, Tissues, and the body Compass

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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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Intro

Walkthrough

Watch Video

Outro

How I Aced Anatomy & Physiology | my study methods (Pre-Nursing) - How I Aced Anatomy & Physiology | my study methods (Pre-Nursing) by Kalli Liz 117,701 views 3 years ago 12 minutes, 44 seconds - Anatomy & **Physiology**, is a pretty tough course for most people, so here are some of my studying tips and tricks that got me ...

Intro

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