

Blood & Respiratory Definitions: (chapters 16 & 17)

Blood is made up of 55% PLASMA (water 92%, 7% proteins, 1% gases) AND

Plasma proteins: **THEY ALL COME FROM THE LIVER**

Albumin: (multiple types) source is the liver, contributes to **colloid osmotic pressure of plasma**, carrier of various substances

Globulin: (multiple types) source is the liver and lymphoid tissue, clotting factors, enzymes, antibodies, carrier of various substances.

Fibrinogen: **INACTIVE** source is the liver, **forms fibrin threads to clot blood**. Low plasma fibrinogen concentrations are associated with an increased risk of bleeding due to impaired primary and secondary hemostasis.

Transferrin: source is liver and other tissues, **for iron transport**

AND

three main cellular elements:

RED BLOOD CELLS (erythrocytes),

PLATELETS (buffy coat) (thrombocytes) BUT split off from megakaryocytes &

WHITE BLOOD CELLS (leukocytes) – immunity. Elevated white blood cells indicate a problem.

White blood cells are divided into 2 main groups: **NEVER LET MONKEYS EAT BANANAS**

Agranular leukocytes (NO granulars)

1. Lymphocytes – also called immunocytes
2. Monocytes – develop into macrophages, known as phagocytes

Granular leukocytes:

1. Neutrophils are phagocytes and granulocytes (highest in our body), for example. Any kind of infection will show a high count of this.
2. Eosinophils – also called granulocytes
3. Basophils – also called granulocytes; tissue basophils are called mast cells (lowest in our body)

HEMATOPOIESIS = MAKING BLOOD

ALL BLOOD CELLS PRODUCED IN THE BONE MARROW

Erythropoietin: A hormone that stimulates the **production of red blood cells in the bone marrow**.

Hematocrit: The percentage of blood volume occupied by red blood cells. **The ratio of red blood cells to plasma is expressed as a percentage.**

Erythropoietin (EPO) comes primarily from the kidney cells and influences red blood cells.

Thrombopoietin (TPO) comes primarily from the liver and influences megakaryocytes.

Human Physiology 400 Midterm Study Guide

David Baud



Human Physiology 400 Midterm Study Guide:

Cumulated Index Medicus ,1967 Cornell University Courses of Study Cornell University,2006 **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents,1985 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index Monthly Catalogue, United States Public Documents ,1985 **Handbook of Physiology: Endocrinology v. 1-7; in 9** John Field,1959 Clinical Science ,1979 Includes abstracts of the proceedings of the Medical Research Society and also that Society s Annual Guest Lecture **Pediatric Gastrointestinal and Liver Disease E-Book** Robert Wyllie,Jeffrey S. Hyams,Marsha Kay,2020-09-24 Now with full color illustrations throughout dozens of new review questions and state of the art coverage of this fast changing area Pediatric Gastrointestinal and Liver Disease 6th Edition remains the leading text in the field You ll find definitive guidance on diagnosis and treatment from experienced editors Drs Robert Wyllie Jeffrey S Hyams and Marsha Kay as well as globally renowned contributors who share their knowledge and expertise on complex issues Features an enhanced art program with full color anatomical figures clinical photos and other illustrations throughout the text Includes a new chapter on fecal transplantation FCT covering donor and recipient screening preparation delivery follow up and safety considerations as well as investigative uses for FCT for disorders such as IBD IBS and D lactic acidosis Prepares you for certification and recertification with more than 400 board review style questions answers and rationales 30% new to this edition Includes detailed diagrams that accurately illustrate complex concepts and provide at a glance recognition of disease processes Contains numerous algorithms that provide quick and easy retrieval of diagnostic screening and treatment information Provides up to date information on indigenous flora and the gut microbiome and clinical correlations to treatment as well as advancements in liver transplantation including split liver transplantation SLT and living donor liver transplantation LDLT Details key procedures such as esophagogastroduodenoscopy and related techniques colonoscopy and polypectomy endoscopic retrograde cholangiopancreatography capsule endoscopy and small bowel enteroscopy gastrointestinal pathology and more Index Medicus ,2002 **Stanford University Bulletin** Stanford University,1998

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assessment procedures consider aspects of psychosocial development and examine developmental aspects of various body systems Provides comprehensive coverage of physiology pathophysiology pharmacology and nursing management related to care of the critically ill child Includes detailed Nursing Care Plans for select disorders Contains helpful appendices such as pediatric drug dosages central venous catheter care and pediatric fluid requirements Features Evolve online resources with additional content for further study of related topics including tables for ease of recollection of material and additional references Contains 10 all new chapters including Pharmacokinetics and Pharmacodynamics Shock Cardiac Arrest and Resuscitation Mechanical Support of Cardiopulmonary Function Fluid Electrolyte and Endocrine Problems Immunology and Infectious Disorders Transplantation and Organ Donation Toxicology Poisonings Fundamentals of Quality Improvement and Patient Safety Clinical Informatics and Ethical Issues in Pediatric Critical Care Features nurse contributors and reviewers for every chapter making this edition a truly collaborative text Provides information vital to the advanced practice nurse such as assessment tools and severity of illness management Includes numerous Pearls that highlight practical wisdom from experts in pediatric critical care nursing

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