

NURSING HEMATOLOGY

DIGITAL STUDY GUIDE

HEMATOLOGY

The hematology or hematopoietic system includes the **blood, blood vessels, and blood-forming organs** (bone marrow, spleen, liver, lymph nodes, and thymus gland).

Major function of blood is to **carry** necessary materials (oxygen, nutrients) to cells and to **remove CO2** system and metabolic waste products. It also plays a role in hormone transport, inflammatory and immune responses, temperature regulation, fluid-electrolyte balance, and acid-base balance.



THREE BROAD FUNCTIONS OF BLOOD :

1

TRANSPORTATION

- Respiratory – transport of gases by the RBC
- Nutritive – transport of digested nutrients from the GI to the different cells of the body
- Excretory – transport of metabolic wastes to the kidneys and excreted as urine

2

REGULATION

- Hormones and other molecules that help regulate metabolism are also carried in the blood
- Thermoregulation

3

PROTECTION

- Blood clotting
- Leukocytes

COMPONENTS OF THE BLOOD :

1. Plasma

2. Formed Elements

- Erythrocytes or RBC
- Leukocytes or WBC
- Thrombocytes or Platelets

BLOOD

Blood is a connective tissue that transports oxygen and nutrients, fights disease, and maintains body temperature.

1. PLASMA – Liquid Component

- Composed of 90% water
- Contains dissolved substances
- Carries nutrients, hormones, and waste products

2. CELLS AND CELL DEBRIS

- Erythrocytes (RBC)
- Leukocytes (WBC)
- Platelets (Thrombocytes)



3. FUNCTION OF BLOOD

- Transport of oxygen and nutrients to cells
- Removal of carbon dioxide and metabolic waste products
- Regulation of body temperature
- Protection against infection and disease

PLASMA

The liquid component of blood that carries the cells and dissolved substances.

- Composed of 90% water
- Contains dissolved substances
- Carries nutrients, hormones, and waste products

Formed Elements

The solid components of blood that are suspended in plasma.

- Erythrocytes
- Leukocytes
- Platelets



APLASTIC CRISIS

Aplastic crisis is a condition in which the bone marrow fails to produce enough new blood cells to replace the old ones.

CAUSES

- Bone marrow failure (BMF)
- Bone marrow suppression (BMS)
- Bone marrow infiltration (BMI)

SYMPTOMS

- Fatigue and weakness
- Shortness of breath
- Dizziness and lightheadedness
- Pale skin

DIAGNOSIS AND MONITORING

- Complete blood count (CBC)
- Bone marrow biopsy
- Peripheral blood smear
- Urinalysis
- Liver function tests
- Kidney function tests
- Electrolyte levels
- Coagulation studies



MANAGEMENT AND PREVENTION

- Supportive care (transfusions, oxygen)
- Bone marrow transplant
- Hematopoietic growth factors
- Infection prophylaxis
- Avoidance of drugs and chemicals that can suppress the bone marrow
- Regular monitoring of blood counts
- Patient education

ANEMIA

Anemia is a condition in which the body does not have enough red blood cells or hemoglobin to carry enough oxygen to the body's tissues.

SYMPTOMS

- Fatigue and weakness
- Shortness of breath
- Dizziness and lightheadedness
- Pale skin

CAUSES

- Iron deficiency
- Vitamin B12 deficiency
- Folate deficiency
- Chronic kidney disease
- Chronic liver disease
- Chronic heart failure
- Chronic lung disease
- Chronic infection
- Chronic inflammation
- Chronic pain
- Chronic stress
- Chronic anxiety
- Chronic depression
- Chronic alcoholism
- Chronic drug use
- Chronic smoking
- Chronic exposure to radiation
- Chronic exposure to chemicals
- Chronic exposure to pollutants
- Chronic exposure to noise
- Chronic exposure to vibration
- Chronic exposure to electromagnetic fields
- Chronic exposure to ionizing radiation
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- Chronic exposure to mechanical radiation
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- Chronic exposure to infrared radiation
- Chronic exposure to microwave radiation
- Chronic exposure to radiofrequency radiation
- Chronic exposure to acoustic radiation
- Chronic exposure to mechanical radiation
- Chronic exposure to thermal radiation
- Chronic exposure to optical radiation



IRON DEFICIENCY ANEMIA

Iron deficiency anemia is a condition in which the body does not have enough iron to produce enough red blood cells or hemoglobin to carry enough oxygen to the body's tissues.

SYMPTOMS

- Fatigue and weakness
- Shortness of breath
- Dizziness and lightheadedness
- Pale skin

CAUSES AND RISK FACTORS

- Iron deficiency
- Vitamin B12 deficiency
- Folate deficiency
- Chronic kidney disease
- Chronic liver disease
- Chronic heart failure
- Chronic lung disease
- Chronic infection
- Chronic inflammation
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- Chronic exposure to infrared radiation
- Chronic exposure to microwave radiation
- Chronic exposure to radiofrequency radiation
- Chronic exposure to acoustic radiation
- Chronic exposure to mechanical radiation
- Chronic exposure to thermal radiation
- Chronic exposure to optical radiation



DIAGNOSIS

- Complete blood count (CBC)
- Iron studies (serum iron, transferrin saturation, ferritin)
- Bone marrow biopsy
- Peripheral blood smear
- Urinalysis
- Liver function tests
- Kidney function tests
- Electrolyte levels
- Coagulation studies

MANAGEMENT AND PREVENTION

- Iron supplementation
- Vitamin B12 supplementation
- Folate supplementation
- Iron-rich diet
- Avoidance of drugs and chemicals that can suppress the bone marrow
- Regular monitoring of blood counts
- Patient education

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Hematology Cls Study Guide

Mary Louise Turgeon



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Hematology Bernadette F. Rodak, George A. Fritsma, Kathryn Doig, 2007-01-01 Textbook explores key aspects of hematology from normal hematopoiesis through diseases of erythroid myeloid lymphoid and megakaryocytic origin Includes a revised section on hemostasis and thrombosis Case studies and chapter summaries are included

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Hematology Shirlyn B. McKenzie, 2004 Designed to meet the needs of both clinical laboratory technicians and clinical laboratory scientists this comprehensive yet easy to read guide to hematology and hemostasis features cutting edge technologies high quality photographs and micrographs case studies and convenient dual level basic and advanced presentation of information In each chapter two levels of objectives and questions are presented allowing content to fit specific course focus Case studies and checkpoints in each chapter help apply and assess comprehension Visual cross referencing symbols throughout make finding information exceptionally easy Features Authoritative content from 24 contributors Running case studies throughout each chapter Checkpoints questions integrated throughout the chapter with rationales provided High resolution full color blood and bone marrow photographs throughout FREE CD ROM contains a powerful database of images and self assessment activities FREE integrated website www.prenhall.com/mckenzie compliments the text with study guide style quiz questions and immediate tabulation of quiz results Detailed discussions of ethical issues and management issues The new technologies of molecular diagnostics flow cytometry and cytogenetics presented here in a very easily understood manner *Clinical Hematology and Fundamentals of Hemostasis* Denise Harmening, 1992 A concise and thorough guide to clinical hematology and the fundamentals of hemostasis The text's five parts provide a substantial introduction to the subject followed by sections on the anemias white blood cell disorders hemostasis thrombosis and laboratory methods This edition includes new chapters addressing the use of flow cytometry the molecular diagnostic techniques in hematopathology and an introduction to thrombosis and anticoagulant therapy A feature of previous editions a 260 page color plate atlas has been incorporated throughout the text Annotation copyright by Book News Inc Portland OR Hematology E-Book Ronald Hoffman, Edward J. Benz, Leslie E. Silberstein, Helen Heslop, Jeffrey Weitz, Mohamed E. Salama, 2022-10-27 Extensively revised comprehensive content from leading global contributors ensures that Hematology 8th Edition remains your 1 choice for expert guidance in all areas of this rapidly advancing subspecialty This edition reflects the numerous advances that are redefining the field and dramatically influencing new approaches to diagnosis treatment and outcomes Well illustrated and clinically focused it details the basic science and clinical practice of hematology and hematopoietic cellular therapy covering virtually all aspects of hematology in one definitive resource Covers all hematologic disorders including comprehensive discussions of hematologic malignancies individualized patient care cell based therapies transplantation transfusion medicine hemostasis thrombosis and consultative hematology in one convenient volume Provides state of the art guidance from global experts at the forefront of the latest research and clinical practice Provides extensive updates throughout on basic science research advances in molecular diagnostics new drugs immunotherapies personalized medicine laboratory medicine transfusion medicine stem cell transplantation and clinical treatment for all hematologic malignancies and non malignancies Contains new chapters on gene editing the impact of mitochondria on hematopoiesis myelodysplastic syndrome myeloproliferative neoplasm overlap syndromes immunotherapy

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Clinical Hematology: Theory & Procedures, Enhanced Edition Mary Lou Turgeon, 2020-06-29 Clinical Hematology Theory Procedures Enhanced Sixth Edition is a competency based text with built in study tools to help you master the theory of clinical hematology and the procedures used to diagnose and treat disorders of the blood and bone marrow

Diagnostic Hematology Bernadette F. Rodak, 1995 The purpose of this text is to present a complete hematology course for Clinical Laboratory Science CLS students as well as to provide a resource for clinical laboratory practitioners medical students and residents It presents an in depth study of cell counting morphologic differentiation and evaluation and related areas such as flow cytometry immunohistochemistry and cytogenetics A chapter on specific age groups covers the unique aspects of hematology in the pediatric and geriatric populations A section on the etiology and treatment of leukocyte neoplasms has been included to provide some insight into the special considerations of oncologic disorders Chapters begin with an outline and learning objectives and color figures are presented as close to the citation as possible to facilitate understanding of the discussion Most chapters end with a summary and in many cases review questions or case studies are included to assess or reinforce understanding of the material

Hematology Laboratory Manual Maurine J. Corsaut, 1982

Laboratory Management Denise Harmening, 2007 The laboratory environment is ever changing in response to the diverging trends in healthcare Laboratory managers who can create solutions to today's problems and effectively manage change are in high demand The second edition of Denise Harmening's Laboratory Management is designed to give a problem based approach to teaching the principles of laboratory management the text focuses on presenting underlying managerial concepts and assisting the learner in successfully applying theoretical models to real life situations

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Hematology Board Review Rami N. Khoriaty,Morgan Jones,Francis P. Worden,2023-12-27 Now in its second edition Hematology Board Review has been thoroughly revised and updated to contain the latest information that fellows and clinicians need to successfully prepare for the Hematology Certification Exam administered by the American Board of Internal Medicine ABIM The new edition now contains even more high yield board study content and review questions For the hematology oncology fellow hematologist medical oncologist or internist looking to review a given disease or blueprint category prior to their examination this extremely practical study guide provides the pertinent points of emphasis that are often highlighted on the exam Chapters on blood disorders and disease sites cover epidemiology etiology and risk factors staging signs and symptoms diagnostic criteria indications for treatment prognostic factors treatment recommendations and special considerations Clinical pearls on other major subspecialty areas found on the exam include hematologic emergencies and supportive care transfusion medicine stem cell biology and hematopoiesis cellular therapy management of hematologic disease complications after cellular therapy and biostatistics With 240 practice questions detailed rationales and a convenient print digital package Hematology Board Review gives you the tools to study your way and the confidence to pass the first time Key Features Aligns with the latest Hematology Certification Exam ABIM blueprint Provides a comprehensive yet concise review of all hematologic malignancies blood disorders transfusion medicine cellular therapy standard treatment regimens and biostatistics Revised to include new treatment recommendations and FDA approvals Includes end of chapter assessment questions with detailed rationales a total of 240 questions **Handbook of Oncologic Emergencies and Urgencies in Acute Care Nursing** Katherine L. Byar,2025-05-15 Delivers life saving information for non oncology nurses and advanced practice providers APPs in either the emergency or acute care settings Bridging the knowledge gap between

oncology and non oncology nurses and APPs in emergency critical care and acute care settings this comprehensive evidence based quick reference covers commonly seen oncologic emergencies It is based on the most up to date cancer treatment knowledge available and with its lucid practical approach demystifies the process of evaluating diagnosing and managing emergencies that frequently arise among cancer patients The text covers common emergencies including a detailed section on oncology related cardiovascular emergencies and urgencies It addresses urgencies associated with specific cancer treatments including chemotherapy and radiotherapy targeted therapies immunotherapy cellular therapy and hematopoietic stem cell transplantation Pediatric oncologic emergencies are also covered Written in outline format for speedy access to critical knowledge the book offers digital access to tables and other complex content When seconds matter having the right resource at your fingertips can make all the difference The Clinical Pathways Guides included in the appendices offer 30 evidence based protocols for common emergency scenarios helping you quickly triage cancer patients and make confident real time care decisions Key Features Provides concise practical information on how to quickly recognize signs and symptoms of adverse effects and emergencies related to cancer and its treatment Offers evidence based guidelines on initiating effective life saving interventions for the management of patients with oncologic emergencies and urgencies Written by experts in oncology and emergency nursing Includes review questions in each chapter Serves as a valuable resource for nurses and APPs preparing for the Oncology Certified Nurse exam A Guide to Health Occupations in Illinois ,1981 Directory of Selected National Testing Programs Educational Testing Service. Test Collection,1987

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