

# NURSING HEMATOLOGY

## DIGITAL DOWNLOADS 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-causing organisms, and maintains body temperature.

#### 1. PLASMA – Liquid Component

- Composed of 90% water
- Contains dissolved nutrients, hormones, and waste products
- Makes up 55% of blood volume

#### 2. ERYTHROCYTES

- Red blood cells
- Carry oxygen

#### 3. LEUKOCYTES

- White blood cells
- Fight infection

#### PLATELETS

- Small, disc-shaped cells
- Help with blood clotting

#### PLASMA MEMBRANE

Also known as cell membrane, it separates the cell from its environment.

- Selective
- Permeable



### 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
- Pale skin
- Shortness of breath
- Headaches
- Dizziness

#### CAUSES

- Iron deficiency
- Vitamin B12 deficiency
- Folate deficiency
- Chronic kidney disease
- Bone marrow failure



### APLASTIC CRISIS

Aplastic crisis is a condition in which the bone marrow fails to produce enough red blood cells to replace those that are lost.

#### SYMPTOMS

- Anemia (low RBC)
- Decreased hemoglobin
- Decreased hematocrit
- Decreased RBC count

#### CAUSES

- Decreased bone marrow
- Decreased production of RBC
- Decreased production of WBC
- Decreased production of platelets

#### DIAGNOSIS AND MONITORING

- CBC
- Hemoglobin
- Hematocrit
- Reticulocyte count
- Iron studies
- B12 and folate levels
- Kidney function tests
- Liver function tests
- Bone marrow biopsy



#### MANAGEMENT AND PREVENTION

- Supportive care (transfusions, iron supplements)
- Bone marrow transplant
- Iron supplements
- B12 and folate supplements
- Kidney dialysis
- Liver transplant
- Bone marrow transplant
- Iron supplements
- B12 and folate supplements
- Kidney dialysis
- Liver transplant

### IRON DEFICIENCY ANEMIA

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

#### SYMPTOMS

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

#### CAUSES

- Iron deficiency
- Vitamin B12 deficiency
- Folate deficiency
- Chronic kidney disease
- Bone marrow failure

#### DIAGNOSIS

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#### MANAGEMENT AND PREVENTION

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# Textbk Of Hematology

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Jr.,Leslie E. Silberstein,Helen  
Heslop,John Anastasi,Jeffrey Weitz**

## **Textbk Of Hematology:**

**Wintrobe's Clinical Hematology** John P. Greer, 2009 Now available in a thoroughly revised Twelfth Edition Wintrobe's Clinical Hematology continues to be an industry leader with its ability to correlate basic science with the clinical practice of hematology With the first edition of Wintrobe's Clinical Hematology published in 1942 clearly establishing hematology as a distinct subspecialty of Internal Medicine the latest edition continues the influence of the Wintrobe name and helps to set this book apart from the competition With its strong focus on the clinical aspects of hematology the book has generated a strong following among internists and general practitioners who want a single resource to consult for their patients who present any blood related disorder The Twelfth Edition is in full color for the first time boasts a new editorial team and includes expanded coverage of new medications and four new chapters on Newborn Anemias Pathology of LHC Spleen Tumors and Myeloproliferative Disorders and Mast Cell Disease A companion Website will offer the fully searchable text and an image bank

**Textbook of Hematology** Shirlyn B. McKenzie, 1988     [A Short Textbook of Haematology](#) Ronald Bolton Thompson, 1969

**Color Atlas and Textbook of Hematology** William R. Platt, 1969     [Hematology](#) Ronald Hoffman, Edward J. Benz, Jr., Leslie E. Silberstein, Helen Heslop, John Anastasi, Jeffrey Weitz, 2013-01-01 This leading text reflects both the new direction and explosive growth of the field of hematology Edited and written by practitioners who are the leaders in the field the book covers basic scientific foundations of hematology while focusing on its clinical aspects This edition has been thoroughly updated and includes ten new chapters on cellular biology haploidentical transplantation hematologic manifestations of parasitic diseases and more The table of contents itself has been thoroughly revised to reflect the rapidly changing nature of the molecular and cellular areas of the specialty Over 1 000 vivid images now all presented in full color for the first time include a collection of detailed photomicrographs in every chapter selected by a hematopathology image consultant What's more this Expert Consult Premium Edition includes access to the complete contents of the book online fully searchable and updated quarterly by Dr Hoffman himself Publisher

*Williams Hematology* William Joseph Williams, 1995 This edition features comprehensive coverage of the basic sciences clinical manifestations diagnostic approaches and treatment of diseases of blood cells coagulation proteins and thrombosis All chapters are written by leaders in the field and are edited to ensure a consistent and complementary treatment of subjects throughout It includes over 50% new material and the latest information on sickle cell diseases AIDS Von Willebrand disease chronic myelogenous leukemia and more The emphasis is on what the clinician needs to know for effective patient management

*Hematology for the Medical Student* Alvin H. Schmaier, Lilli M. Petruzzelli, 2003 This is the first comprehensive accurate introductory text on hematology for medical students The many topics of hematology are covered and each chapter begins with an overview and then proceeds to an outline of key concepts for each specialty area The text includes simple line drawings algorithms and color plates and features bulleted points and bolded key words With its depth and concise format this book serves as a

thorough text general reference and a review for the USMLE Step 1 exam and is a valuable tool for the internal medicine clerkship rotation and exam Compatibility BlackBerry R OS 4 1 or Higher iPhone iPod Touch 2 0 or Higher Palm OS 3 5 or higher Palm Pre Classic Symbian S60 3rd edition Nokia Windows Mobile TM Pocket PC all versions Windows Mobile Smartphone Windows 98SE 2000 ME XP Vista Tablet PC     Williams Hematology, Eighth Edition Marshall Lichtman, E. Beutler, Thomas Kipps, Uri Seligsohn, Kenneth Kaushansky, Josef Prchal, 2010-07-30 The landmark hematology reference now in full color A Doody's Core Title for 2015 5 STAR DOODY'S REVIEW This edition continues the tradition of providing a comprehensive updated textbook of hematology This very worthy objective is spectacularly met by this edition As a textbook of hematology this has a broad based audience medical students residents fellows and practitioners including our allied healthpartners in virtually every aspect of medicine The authors and editors are internationally recognized in fact luminaries in their fields Williams continues to sustain its unparalleled reputation as THE textbook of hematology I've run out of superlatives Get it Doody's Review Service Edition after edition Williams Hematology has guided generations of clinicians biomedical researchers and trainees in many disciplines through the origins pathophysiological mechanisms and management of benign and malignant disorders of blood cells and coagulation proteins The book begins with the evaluation of the patient and progresses to the molecular and cellular underpinnings of normal and pathological hematology Subsequent sections present disorders of the erythrocyte granulocytes and monocytes lymphocytes and plasma cells malignant myeloid and lymphoid diseases hemostasis and thrombosis and transfusion medicine Featuring a brand new full color presentation the Eighth Edition of Williams Hematology is extensively revised to reflect the latest views of experts in the field Two new chapters examine the importance of genomics in hematology and cell therapy for tissue replacement whereas other chapters have been revised to incorporate the newest clinical approaches to the leukemias and lymphomas and the application of targeted therapy in the treatment of hematologic disorders New to this Edition Full color presentation conveniently integrates images of blood and tissue findings where they are cited in the text Two additional chapters Genomics and Epigenetics and Regenerative Medicine Principles of Multipotential Cell Therapy for Tissue Replacement offer insights into the application of genomic and monoclonal therapies to hematology and emphasize their role in improving diagnostic and therapeutic methods Expanded coverage of non Hodgkin lymphoma includes separate chapters on its constituent diseases providing an in depth assessment of the diagnosis and management of these disorders A comprehensive discussion of erythrocytosis and thrombocytosis reviews reactive and malignant forms of myeloproliferation encompassing new genetic advances in these disorders along with more targeted therapeutic approaches Companion CD includes a large selection of morphologies illustrations and drawings from the book in a presentation ready PowerPoint format     **Short Textbook of Hematology** B.S. Shah, Preeti Bajaj, 2014     **Blood** James H. Jandl, 1996 This text presents the pathogenesis clinical manifestations and management of all haematological disorders The content is logically organized from definition to

treatment and the descriptions of the origins manifestations and treatment of haematologic diseases are written in language common to clinical and basic science

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