

HEMATOLOGY CASE STUDIES: PLATELETS

OBJECTIVES:

After completing this course the participant will be able to:

1. Differentiate among the causes of thrombocythemia.
2. Explain how to determine the platelet count when the count is above the upper reportable range of the analyzer.
3. Estimate the platelet count from the blood smear.
4. List the signs and symptoms of Essential Thrombocythemia.
5. Enumerate the causes of thrombocytopenia.
6. Discuss the causes of pseudothrombocytopenia.
7. Explain the methods of determining the causes of pseudothrombocytopenia.

Case #1

A 44-year-old woman comes in for a complete blood count (CBC) as part of a routine physical exam. The results from the hematology analyzer, Cell-Dyn 1700 ® (Abbott Diagnostics), are:

WBC	7.5 K/ μ L	RBC	4.22 M/ μ L
Lym	28.7 %	HGB	12.4 g/dL
MID	10.4 %	HCT	38.6 %
Gra	60.9 %	MCV	91.4 fL
PLT	>>>> K/ μ L	MC1H	29.3 pg
		MC1PC	32.0 g/dL
		RDW	13.5 %

MID cells may include less frequently occurring cell types contributing to monocytes, neutrophils, basophils, blasts, and other precursor white cells.

Questions:

1. What is abnormal about her CBC?
2. Which parts can be reported?
3. What procedures can be done regarding the abnormal result?

Answers:

1. The platelet count is above the upper reportable range.
2. The WBC histogram and 3-part differential are normal and can be reported. The RBC histogram is normal and can be reported.
3. To determine the platelet count:
 - a. Make a 1:1 dilution of the whole blood and re-run the platelet count. Correct the platelet count for the dilution.
 - b. Make a smear of the whole blood and examine for platelet morphology and numbers.

Hematology Case Studies Platelets

David G. Nathan, Frank A. Oski



Hematology Case Studies Platelets:

Haematology Case Studies with Blood Cell Morphology and Pathophysiology Indu Singh, Alison Weston, Avinash Kundur, Gasim Dobie, 2017-08-02 Hematology Case Studies with Blood Cell Morphology and Pathophysiology compiles specialized case studies with specific information on various hematological disorders with Full Blood Examination FBE or CBC blood film images and pathophysiology of each condition In addition it provides basic information on how to recognize and diagnose hematological conditions that are frequently observed in the laboratory Technicians and scientists working in core laboratories such as biochemistry labs or blood banks will find this book to be extremely thorough Moreover it can be used as a reference book by technicians scientists and hematologists in every level of expertise in diagnosing hematological disorders Includes morphology of red cells white cells and platelets Provides images of actual blood slides under the microscope showing the most important diagnostic features observed in each condition Presents details that are considered difficult for beginners or non hematologists such as specific tests and techniques Covers case studies that finish with the pathophysiology of the condition Pediatric Hematology Case Studies Rashid A. Al-Rashid, 1972 **Clinical Hematology** Mary Louise Turgeon, 2005 This established entry level hematology text enters its Fourth Edition with even more of the focused coverage and learning tools that have made it so successful Well illustrated and reader friendly the book features extensive study and review tools including learning objectives case studies procedure boxes and review questions The fully updated Fourth Edition includes new material on safety issues transplants sickle cell anemia and genetic diagnostics New chapters address flow cytometry cytochemistry and hemostasis and coagulation Chapter summaries have been boxed for rapid reference and this edition includes an expanded 16 page color insert Midwest **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 The Obstetric Hematology Manual Sue Pavord, Beverley Hunt, 2018-02-08 Understand the rapidly growing complexities of obstetric hematology and high risk pregnancy management with experts in the field Now in its second edition this comprehensive and essential guide focuses on providing the best support for patients and clinical staff to prevent serious complications in pregnancy and the post partum period for both mother and baby Wide ranging and detailed the guide offers discussions on basic principles of best care through to tackling lesser known hematological conditions such as cytopenias and hemoglobinopathies Updated with color illustrations cutting edge research accurate blood film reproductions and practical case studies the revised edition places invaluable advice into everyday context This unique resource is essential reading for trainees and practitioners in obstetrics anesthesia and hematology as well as midwives nurses and laboratory staff Clarifying difficult procedures for disease prevention the guide ensures safety when the stakes are high Reflecting current evidence based guidelines the updated

volume is key to improving pregnancy outcomes worldwide Cases in Microscopic Haematology Gillian Rozenberg, 2011-11-11 An engaging haematology textbook detailing the laboratory process of data and blood film analysis differential diagnosis and reporting Cases in Microscopic Haematology is a high quality haematology textbook featuring a collection of microscopic haematology case studies Author Gillian Rozenberg has selected 80 case studies specifically designed to engage the reader in the laboratory process of data and blood film analysis differential diagnosis and reporting This selection includes a range of rare blood film slides for an additional challenge Case studies are organised according to difficulty and the worked cases are available in the back of the textbook Each case featured in Cases in Microscopic Haematology provides the family history analyser data and blood film slide Students are able to work through the cases using a template to complete the differential diagnosis and reporting Both the process and template simulate a functioning laboratory environment This local publication will appeal to both the academic and professional market It is an excellent companion to Microscopic Haematology A Practical Guide for the Laboratory 3e also by Gillian Rozenberg Elsevier s Evolve platform features a range of resources for instructors This includes all the book s images in an easy to use image collection and 20 annotated virtual slides comprising case studies from Cases in Microscopic Haematology 20 annotated virtual Haematology slides 80 Haematology cases to be worked through using template Simulate laboratory process Include rare range of blood film slides not easily accessible including paediatric Evolve Resources For instructors only Image Collection all the images from the book 20 Virtual Slides featuring cases from the book o Virtual Slide Annotations Proceedings of the Eighth Congress of the European Society of Haematology, Wien, 1961 European Society of Haematology, International Society of Hematology, 1962 *Hematology in Clinical Practice, Fifth Edition* Robert S. Hillman, Kenneth A. Ault, Michel Leporrier, Henry M. Rinder, 2010-10-22 The most practical and efficient guide to the diagnosis and management of blood disorders now in full color 200 full color illustrations Hematology in Clinical Practice is a succinct cutting edge guide to the diagnosis and treatment of disorders of red blood cells white blood cells and hemostasis and the use of blood components for transfusion Each disease state is discussed in detail incorporating the pathophysiology clinical features up to date laboratory testing and current management strategies into a comprehensive and practical approach to hematologic disorders Features New full color presentation includes over 200 superb illustrations and classic images of blood morphology tissue pathology and clinical findings New Case Histories introduce and continue through relevant chapters highlighting critical clinical points for diagnosis and management New end of chapter Points to Remember encapsulate key clinical information New chapters include Anemia in the Elderly and expanded and updated coverage of Transplantation and treatment of hematologic malignancies Outstanding collection of tables charts and illustrations that translate basic science into valuable clinical context Strong focus on practical clinical management and supportive care Coverage of state of the art drugs and chemotherapies and the latest advances in genetic testing and molecular pathways Conveniently organized into sections on

Red Cells White Cells Hemostasis and Transfusion Medicine **Annual Meeting - American Society of Hematology**
American Society of Hematology,1994 **Case Studies in Hematology and Coagulation** Gene Ed Gulati,2019

Proceedings of the ... International Congress of the International Society of Hematology International Society of Hematology. Congress,1972 *Studies on the Hematology of Normal and Cholera Infected Hogs* Robert Robson Dinwiddie,1914 Journal of Clinical Hematology and Oncology ,1977 **Studies on the Hematology of Normal and Cholera Infected Hogs** Hartley Eugene Truax,Martin Nelson,Robert M. Gow,Robert Robson Dinwiddie,William Hale Wicks,1913 Wintrobe's Clinical Hematology: Disorders of hemostasis and coagulation ,1993 V 1 Introduction Normal hematopoietic system Disorders of red cells v 2 Disorders of hemostasis and coagulation Nonmalignant disorders characterized by adenopathy splenomegaly and or abnormalities of leukocytes or immunoglobulins Malignant neoplastic disorders of the hematopoietic system Hematology Case Review Donald C. Doll,Radwan F. Khozouz,Wes Matthew Triplett,2013-10-24 Hematology Case Review is a comprehensive text that covers the expansive knowledge about the study of blood cells After collecting blood smears and bone marrow aspirates for over 40 years Dr Doll has created the most up to date and comprehensive compilation of hematology case studies These samples form the core of the case studies featured in this book including benign disorders such as hereditary spherocytosis to neoplastic neoplasms like acute leukemia Within the text both rare and common conditions are discussed with the presenting symptoms blood counts and pertinent images The book is formatted in an interactive problem based layout in order to enhance the question and answer features of the book It is a widely applicable text that has been utilized for its practicality for over 15 years and is becoming particularly important for general internists family practice physicians and hospitalists Additionally Hematology Case Review continues to be a vital tool and asset for medical students medical residents hematology oncology fellows and pathology residents Proceedings of the International Congress of the International Society of Hematology International Society of Hematology,1956

Hematology of Infancy and Childhood David G. Nathan, Frank A. Oski,1981 Presenting the New Edition of the classic reference on pediatric hematology and oncology Comprehensively revised and updated it continues to integrate lucid reviews of the pathophysiology of disease with detailed clinical guidance on its diagnosis and management Drs Nathan and Orkin joined by two new co editors and an outstanding team of authors worked tirelessly to ensure that all the latest scientific advances appear in the 6th Edition **Experimental Hematology** ,1996-06 **Williams Hematology Hemostasis and Thrombosis** Kenneth Kaushansky,Marcel M. Levi,2018-01-12 Hemostasis and Thrombosis as only Williams can cover them A Doody's Core Title for 2019 Featuring content derived from Williams Hematology Ninth Edition this concise full color resource delivers comprehensive and current coverage of hemostasis and thrombosis and platelet and megakaryocyte disorders More than a sectional reprint the book includes updated science and treatment recommendations not found in the 2015 release of Williams Hematology Ninth Edition Perfect for use at the point of care Williams Hemostasis and Thrombosis

offers the most current evaluation and treatment options for patients with bleeding and thrombotic disorders Covers the latest advances in hemostasis and thrombosis A handy quick summary appears at the beginning of each chapter Discusses the physiologic basis for hemostasis and thrombosis

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Hematology Case Studies Platelets**

In some sort of inundated with monitors and the cacophony of fast interaction, the profound energy and psychological resonance of verbal art frequently fade in to obscurity, eclipsed by the constant barrage of sound and distractions. Yet, located within the musical pages of **Hematology Case Studies Platelets**, a interesting work of literary splendor that impulses with organic emotions, lies an unique journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this enchanting opus books readers on an emotional odyssey, gently revealing the latent potential and profound affect embedded within the complex internet of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is main styles, dissect their fascinating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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