

# **Hematology Case Studies Platelets**

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## Hematology Case Studies

Platelets The platelet count on 1:1 diluted blood was 534, so the platelet count is  $2 \times 534 = 1,068$  K/ $\mu$ L (normal is 150-400 K/ $\mu$ L). On blood smears made from EDTA-blood and stained with a

Romanowsky stain, platelets are round or oval, 2-4  $\mu$ m in diameter, and separated from one another.

The platelet count can be estimated from the smear. Hematology Case Studies: Platelets A normal platelet count, even with clumping seen on a smear, is still usually estimated to be normal (or may occasionally be increased.) Thrombocytopenia, on the other hand, can be a challenge in the hematology laboratory. With thrombocytopenia, physicians need

an accurate count to diagnose, treat or monitor patients. Hematology Case Study: The Story of the Platelet Clump ... Hematology case studies: Platelets The slide provides a case study based approach to learning of haematology. The slide provides a case study based approach to learning of haematology. Slideshare uses cookies to improve functionality and performance, and to provide you with relevant advertising. Hematology case studies: Platelets - LinkedIn SlideShare and platelets. • Explain underlying physiological processes for abnormal RBC, WBC, and platelet morphology. • Describe the morphologic basis for distinguishing benign from malignant WBC disorders. • Correlate abnormal

cellular morphologic variations with selected case studies.

2 Hematology M+Ms: Morphology and Mystery Hematology Case Study: Thrombocytopenia in a 4 Year Old Child. A 4 year old child was brought to the pediatrician by her mother with a complaint of new onset of severe bruising on her legs. The mother could not recall any falls or bumps that would have caused the bruising. On exam, the physician also noted mucosal bleeding in the oral

cavity. Hematology Case Study: Thrombocytopenia in a 4 Year Old ...

The goal of the case study is to clarify specific and timely teaching points in the field of hematology.

The following case study focuses on a 9-year-old boy who presents to the clinic with a two-week history of

thrombocytopenia. He had an episode of epistaxis three weeks prior and has been experiencing increased bruising over the last month. Case Studies: Unexplained Thrombocytopenia in a Child ... Pathophysiology - Hematology. Page 2. COMPLETE BLOOD COUNT. Most blood counts are done electronically, using cell counters that use electrical impedance to measure number of nucleated cell in the blood (recorded as the white cell count (WBC), the total number of cells in the blood (recorded as the RBC count), the total number of platelets in th e blood, and the mean si zes of the red blood cells and platelets [recorded as the mean corpuscular volume (MCV) and the mean platelet volume (MPV)]. PATHOPHYSIOLOGY CASES

FOR HEMATOLOGY 2005-2006 Case Study: Chronic Immune Thrombocytopenia Purpura. A 52-year-old woman with a history of hypertension returned to clinic for continued management of chronic immune thrombocytopenia purpura (ITP). She was diagnosed three years previously when she presented to her primary care provider with petechiae and was found to have isolated thrombocytopenia with a platelet count of 3,000/ $\mu$ L. Case Study: Chronic Immune Thrombocytopenia Purpura ... Medical consultant for Case Studies: Phuong L. Nguyen, M.D., formerly of the Department of Laboratory Medicine and Pathology, University of Minnesota. With the Hematography process, selected cells are isolated from several

different microscopic photographs of the patient's blood or bone marrow smear, then combined to produce a representative

... Hematography Case

Studies Teaching Cases. ASH

Teaching Cases emphasize

standard approaches to classic

hematologic problems and are

designed to simulate the steps

involved in diagnosing a patient,

from taking the history and

performing a physical exam, to

ordering and interpreting lab tests,

to making a final diagnosis and

following the clinical course of the

disease. Teaching Cases - ASH

Academy The patient's blood work

is notable for a sodium level of 127

mEq/L, an aspartate transaminase

(AST) of 441 U/L, an alanine

transaminase (ALT) of 288 U/L, and

a platelet count of 14,000. Case Study: Fever and low platelets - Clinical Advisor Case 3: A 38 year old renal transplant recipient with worsening anemia. Case 4: A 31 year old man with a swollen left arm. Case 5: A 32 year old man with GI symptoms, fever, anemia and thrombocytopenia . Case 6: A 74 yo woman with pancytopenia . Case 7: A 51 year old woman with prosthetic heart valves and transfusion-dependent anemia Hematology Case Studies Platelets were decreased with giant forms (Figure 8). Examination of the bone marrow aspirate and biopsy (Figures 9, 10, 11and 12) demonstrated normocellular trilineage hematopoiesis with marked erythroid predominance and



megakaryocytosis. The myeloid/erythroid ratio was markedly decreased at 0.3. Case 250 --Hematopathology Case - UPMC Hematology case study on low platelets December 17, 2018 by Natalie As promised in my last blog, here's a case study that more or less mimics the thought process of a technologist on the Hematology bench. The CBC analyzer flags a platelet count of  $67 \times 10^9 /L$  (the normal reference range is  $150-450 \times 10^9 /L$ ). Hematology case study on low platelets - BCIT News Description 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. Haematology Case Studies with Blood Cell Morphology and ... This compendium of 200 case studies is the result of a unique collaboration of leading hematologists, hematopathologists, and oncologists. It serves as both a case-based guide to the diagnosis and management of patients suffering from hematologic conditions and a valuable teaching tool. The editors have compiled an invaluable collection of cases covering common and rare entities—from anemias and acute leukemias to plasma cell, platelet and coagulation disorders. Case Studies in Hematology and Coagulation - ascp Von Willebrand disease (VWD) is a hereditary

deficiency of von Willebrand factor (VWF), which causes platelet dysfunction. Bleeding tendency is usually mild. Screening tests show a normal platelet count and, possibly, a slightly prolonged PTT. Diagnosis is based on low levels of von Willebrand factor antigen and von Willebrand factor activity (ristocetin cofactor activity). Von Willebrand Disease - Hematology and Oncology - MSD ... A case of chronic idiopathic thrombocytopenic purpura (I.T.P.) exhibited a circulating platelet agglutination of high titer. This could be demonstrated not only through its ability to clump various platelet preparations at extremely high titers, but also to interfere with the functional activity of normal platelets. Studies on Platelets |

Blood | American Society of Hematology *S. aureus* can interact with platelets promoting early clearance. Drugs including nafcillin, vancomycin, quinine, heparin, furosemide and others could provide an immune/drug mediated destruction of...

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