



Advances in Hematology Laboratory

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Message from the Guest Editor

Complete blood counts (CBC) and leukocyte differential are among the most frequently requested laboratory tests. These analyses are highly automated, and the evolution of automation in the hematology laboratory has enabled not only high throughput, greater reliability, and accuracy in the results, but as automated hematology systems become more sophisticated with the introduction of new physical principles for cellular analysis, also a generation of new parameters to characterize blood cells in more detail. Several parameters have been introduced to CBC, such as nucleated red blood cells, immature granulocytes, immature platelet fraction, as well as new parameters for the detection of ineffective erythropoiesis (reticulocyte hemoglobin, red cell subsets). Leucocyte morphometric parameters (cell population data) aid in the preliminary diagnosis of diseases (i.e., differentiating between abnormal lymphocytes in leukemia and viral conditions) and could be useful to ascertain infection and sepsis, and the discrimination of the etiology.

Different technologies can be used to enumerate platelets, and modern counters can provide not only platelet count,





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Message from the Editor-in-Chief

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