

Yumizen

Chase the Case #13



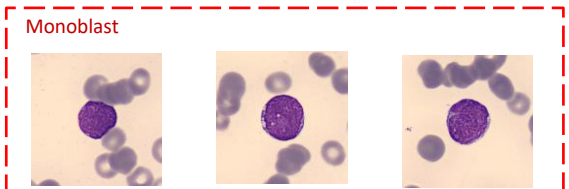
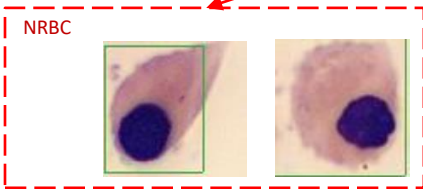
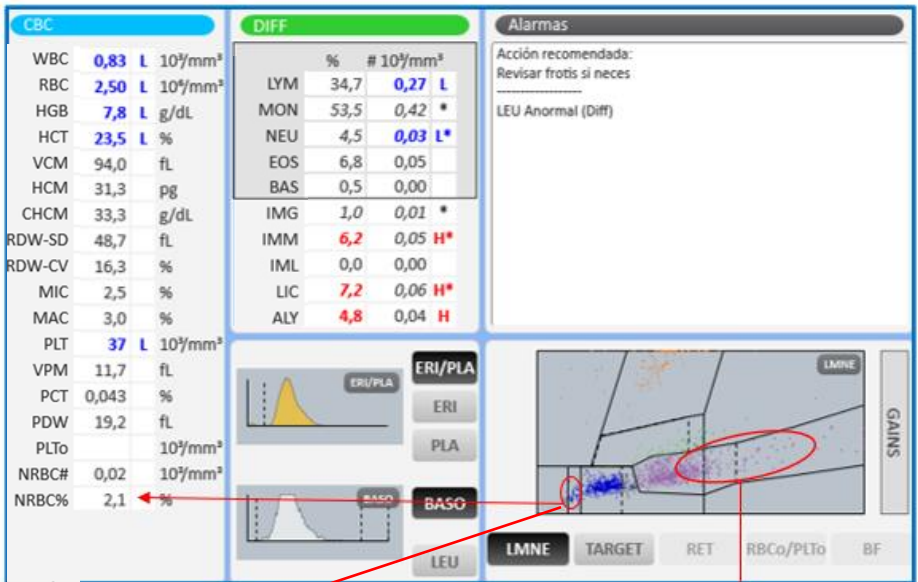
Patient demography: Female, 50 years old.

Diagnosis: Severe pancytopenia (anemia, thrombocytopenia, and leukopenia) caused by an acute myeloid leukemia.

Other information: Asthenia and fever that were related to an acute pharyngitis.

Biochemical test results: C-reactive protein (CRP) 25 mg/dl; lactate dehydrogenase (LDH) 354 mg/dl.

Microscopic review: **Neutropenia** and **immature cells** (myeloid blasts); **immature granulocytes** are present with a good correlation with the% detected by the analyzer. We observe **anisopoikilocytosis** (presence of erythrocytes of varying size and shape) related to the stress in the normal maturation of the cells in the bone marrow. Those are common morphological features observed in this clinical condition. 2% of nuclear red blood cells (NRBC) are detected without any abnormal morphological changes. In this type of case, monoblasts may interfere with monocyte count.



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Contact: webmaster.med@horiba.com

Editorial Team:

Fábio Oliveira, Daniele Pacheco, Shubham Rastogi, Sebastien Raimbault, Elsa Comas, Javier Barros - HORIBA Medical Brazil, France & Spain

This clinical case is provided by:
 Anna Marull, Maite Serrando
 Laboratori Clínic Territorial IAS-ICS
 Girona, Spain