Images in Clinical Hematology

Visceral leishmaniasis: amastigotes in the bone marrow

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Figure 1 – Leishmania amastigotes phagocytosed by macrophages. Black arrows show amastigotes (May-Grünwald stain; (A) magnification: 400×, (B) magnification: 1000×).

A 50-year-old man came to the emergency room of a university hospital complaining of weight loss, fever and abdominal pain associated with hepatosplenomegaly. Laboratory investigations revealed pancytopenia with red blood cell (RBC) count of $2.35 \times 10^{12}/L$, hemoglobin 7.2 g/dL (RBCs with rouleaux formation), platelets of $75.7 \times 10^9/L$, white blood cell count of $2.77 \times 10^9/L$ (with 58% neutrophils, 27% lymphocytes, 15% monocytes, 0% eosinophils and 0% basophils), hypoalbuminemia (1.31 g/dL) and hypergammaglobulinemia (6.63 g/dL). Serological test results were negative for antibodies for

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hepatitis (B and C) and human immunodeficiency virus (HIV). Due to the laboratory findings and sustained pancytopenia, a bone marrow biopsy was performed which showed Leishmania amastigotes phagocytosed by macrophages (Figure 1) confirming the diagnosis of visceral leishmaniasis infection.\textsuperscript{1,2}

REFERENCES