



Images in Clinical Hematology

Disseminated histoplasmosis diagnosed in a bone marrow sample

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Histoplasmosis is a fungal infection caused by a dimorphic fungus *Histoplasma capsulatum*.¹ Progressive disseminated histoplasmosis (PDH) is an AIDS-defining illness with a high lethality rate if not promptly treated.³ In patients with disseminated disease, culture and pathology are the most sensitive.² The gold standard for the identification of the pathogen is the culture demonstrating the thermal dimorphism of the fungus.³ We present a case of a 52 year old male with HIV-1 infection (CDC-C3) and a recent trip to Brasil, admitted in the ICU with a diagnosis of *Pneumocystis jirovecii* pneumonia (under co-trimoxazole treatment) and haemophagocytic lymphohistiocytosis. A bone marrow (BM) aspirate was performed and stained May-Grunwald-Giemsa films revealed numerous yeast-like bodies inside and outside macrophages with morphology suggestive of *Histoplasma* spp (Figure 1 and 2). Culture and molecular results (bone marrow PCR) confirmed the microbiological diagnosis- *Histoplasma capsulatum*.

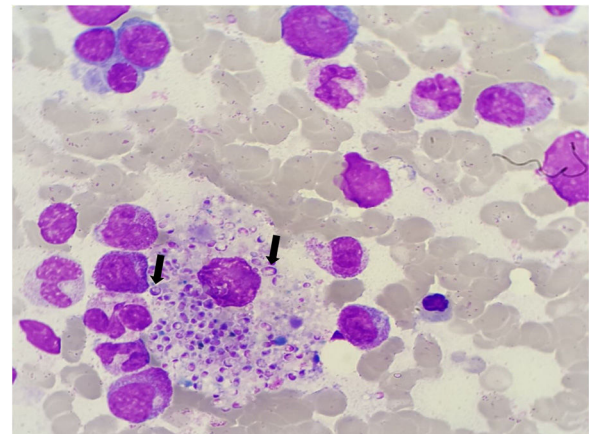


Figure 1 – BM aspirate: numerous yeast-like bodies inside macrophages (arrows) with morphology suggestive of *Histoplasma* spp.

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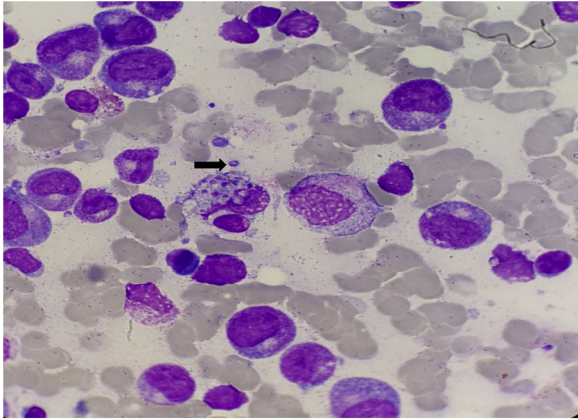


Figure 2 – BM aspirate: yeast-like bodies outside macrophages (arrow) with morphology suggestive of *Histoplasma* spp.

Conflicts of interest

The author declares no conflicts of interest.

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