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Other laboratory test

HIV positive.

Examination of the peripheral blood morphology

Yeast-like fungal spores were observed within the cytoplasm of some neutrophils, with the fungal cells having varying sizes and diverse morphologies (such as oval, elliptic, and sausage-shaped). Some fungal cells exhibited even thickness with two rounded ends, and a lightly stained diaphragm was visible in the middle. Scattered yeast-like fungal spores were also easily observed outside of the neutrophils.

Mature red blood cells varied in size, including elliptic, crenated, and a few teardrop-shaped and spherical forms. Additionally, schistocytes were observed.

Diagnosis

Talaromyces marneffe infection.

infection

is a fungus classified as *Penicillium*. It is a common opportunistic infection, especially in patients with AIDS and malignancies, as well as the immunocompromised. TM is transmitted through the respiratory system and then spreads throughout the body via the bloodstream. TM infections are complex and can affect various organs such as the lungs, liver, and spleen, leading to a high mortality rate.

TM infections are classified into disseminated infections according to the location and characteristics of the lesion. Common sites of infection include the lungs, liver, and spleen. Routine examination indicators for these infections are not reliable on both clinical manifestations and etiology.
