A 33-year-old woman from Zimbabwe with AIDS and a CD4 count of 6 cells/mm³, non-compliant with antiretroviral therapy, presented with severe headaches, vomiting, fevers, and a productive cough. Physical examination revealed tachycardia, a temperature of 39.4°C, clear lungs, and an absence of meningeal signs. Laboratory studies showed a white blood cell count of 4.8 and hemoglobin of 10.1 g/dL. A lumbar puncture was consistent with cryptococcal meningitis (cryptococcal antigen titer 1 : 32768), and the patient had positive blood cultures growing Cryptococcus neoformans. The admitting chest radiograph was unremarkable.

Amphotericin B and flucytosine were given. Her repeat lumbar puncture 2 weeks later showed an unchanged cryptococcal antigen titer, and she continued to have high fevers (39.4–40°C) and cough. Tuberculosis was ruled out. A computed tomography scan of the chest, abdomen, and pelvis revealed bilateral multiple moderately enlarged mediastinal and hilar lymphadenopathy, patchy infiltrate in the right lung, and mild hepatomegaly (Fig. 1).

Endoscopic ultrasound (EUS) was performed to evaluate the mediastinal lymphadenopathy. Images showed a large heterogeneous hypoechoic mass extending from the subcarinal space to the distal peri-esophageal space (Fig. 2). The mass was sampled by fine-needle aspiration (FNA) biopsy, revealing cryptococcosis and aspergillosis (Fig. 3). The patient then asked to leave the hospital and was placed on oral voriconazole.

EUS-guided FNA has emerged as an important diagnostic imaging modality. It is a non-surgical method to obtain tissue sampling from mediastinal lesions, with the advantage of real-time ultrasound guidance [1]. EUS can identify lymph nodes as small as 3 mm, particularly in the celiac, subcarinal, and aorto-pulmonary areas [2]. Pulmonary cryptococcosis has rarely been diagnosed via EUS-guided FNA. Concurrent diagnoses of patients with pulmonary cryptococcal isolates are common, especially in patients with HIV infection [3]. Here, aspergillus was concomitantly found. It has been shown that EUS with FNA has a 97% accuracy rate for tissue confirmation, and should be the test of choice especially for evaluating posterior mediastinal lymphadenopathy [4, 5].

In conclusion, we report a non-traditional modality to diagnose pulmonary cryptococcus using EUS with FNA.

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Competing interests: None

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