Paracoccidioidomycosis is a systemic granulomatous disease endemic in Latin America. It is acquired through the inhalation of spores released by *Paracoccidioides brasiliensis* [1]. Impairment of adrenal function may be found in 15%–20% of patients with paracoccidioidomycosis [1]. Although highly specific (> 85%), serological tests may be false-negative in immunosuppressed patients [1]. Hence, detection of fungal elements is the diagnostic gold standard. A PubMed review revealed that adrenal biopsies done to diagnose paracoccidioidomycosis are mostly guided either by computed tomography or by abdominal ultrasound [2,3]. This is the first case report of diagnosis of paracoccidioidomycosis in the left adrenal gland by endoscopic ultrasound fine needle aspiration (EUS-FNA).

A 40-year-old man with chronic alcoholic pancreatitis and type 2 diabetes mellitus complained of weakness, abdominal pain, and 30 kg of weight loss in the past 6 months. During the diagnostic investigation, primary adrenal insufficiency was confirmed by the low serum cortisol and high levels of adrenocorticotropic hormone (ACTH). A magnetic resonance scan showed nodular formation (3.5 × 2.4 × 4.7 cm) in the left adrenal gland (Fig. 1). As the patient had a positive history for tuberculosis and paracoccidioidomycosis, he was investigated for presence of these pathogens. Catarrh assessment revealed absence of both paracoccidioidomycosis and tuberculosis organisms and serological tests were also negative. Endoscopic ultrasonography with FNA was carried out (Fig. 2) and the histopathological analysis revealed *P. brasiliensis* spores (Fig. 3). The patient was treated with amphotericin-B with complete remission after 60 days.

Percutaneous adrenal puncture has been standard practice in the diagnosis of paracoccidioidomycosis of the adrenal gland, with severe complications reported such as hematuria, pancreatitis, and pneumothorax [4]. Nowadays, EUS-FNA of the left adrenal is a safe and reliable method, with low morbidity and high rate of accuracy [5], and this is the first report of diagnosis of adrenal paracoccidioidomycosis by EUS-FNA.
Competing interests: None

R. Colaiacovo¹, R. L. Ganc¹, A. C. Leone¹, M. T. Medeiros², L. G. Rossini¹
¹ French-Brazilian Center of Endoscopic Ultrasound, Department of Endoscopy, Santa Casa Faculty of Medicine, São Paulo, Brazil
² Department of Pathology, Santa Casa Faculty of Medicine, São Paulo, Brazil

References

Bibliography
Endoscopy 2011; 43: E236–E237
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

Corresponding author
R. Colaiacovo
French-Brazilian Center of Endoscopic Ultrasound, Department of Endoscopy, Santa Casa Faculty of Medicine
Rua Jose Alberto Senator
18 Vila Romana
São Paulo
SP 05043-070
Brazil
rogerio_colaiacovo@yahoo.com.br