A 36-year-old woman presented with a several-month history of worsening left upper quadrant pain and weight loss. A CT scan showed a pancreatic mass and splenic lesions, and possible splenic vein thrombosis (Fig. 1). The patient had no history of immunosuppression, diabetes, or HIV. Her physical exam was unremarkable except for left upper quadrant tenderness. Her laboratory tests showed mild microcytic anemia, slight elevation in transaminases, and a two-fold increase in alkaline phosphatase above normal.

Endoscopic ultrasonography (EUS) using Pentax EG 3630 UR and EG 3630 U echoendoscopes revealed a cystic lesion in the pancreas and a hypoechoic lesion in the spleen. Aspiration of the pancreas with a 22-G needle and the spleen with a 25-G needle (Fig. 2, 3) revealed necrotic debris and uniform yeast organisms with broad-based budding suggestive of blastomycosis at both sites (Fig. 4, 5). The presumptive morphological diagnosis was confirmed by culture with DNA probe identification of *Blastomyces dermatitidis*.

Blastomycosis is an infectious disease caused by the dimorphic fungus *Blastomyces dermatitidis* [1,2]. This disease is endemic to the eastern and central regions of North America along the Mississippi, Ohio, and St. Lawrence river valleys. Usually it is a self-limiting pulmonary infection, but systemic spread can occur. Immune suppression does not appear to increase the risk of acquiring disease, but may alter the manifestations [2 – 4]. For unknown reasons, the disease disseminates in some patients [2 – 5]. We are unaware of any prior reports of EUS being used to diagnose abdominal involvement in blastomycosis. The use of EUS fine-needle aspiration for diagnosis was ideal in this particular setting since suggestive material was found from both the pancreas and spleen at the time of the procedure, and the diagnosis was confirmed by culture and DNA methodology.

References

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