A 45-year-old man presented with a 24-hour history of holocranial headache and right-side deviation of the oral commissure. He denied fever and other neurological symptoms. He had undergone endoscopic ultrasound (EUS)-guided celiac plexus neurolysis (CPN) 3 weeks before for the management of refractory epigastic pain caused by alcoholic chronic pancreatitis.

On physical examination, cachexia (due to exocrine pancreatic insufficiency) was evident (body mass index of 16 kg/m²). Temperature was 36.7 °C. Neurologic examination revealed only a right central facial palsy. Blood count and chemistry were normal except for: platelets, 53,000/µL; lymphocytes, 820/µL (492 CD4+/µL); triglyceride level, 68 mg/dL; albumin level, 68 mg/dL; and gamma-glutamyl transferase level, 339 UI/dL.

Neuroimaging suggested the diagnosis of a brain abscess (Fig. 1 and 2). Lumbar puncture was normal. Chest and abdominal computed tomography scan only revealed calcifications at the pancreatic area with homogeneous splenomegaly and portal thrombosis. A transthoracic echocardiography with contrast injection did not identify an intracardiac right-to-left shunt. HIV and Toxoplasma gondii serologies were negative. Blood cultures were sterile and tuberculin test was negative.

Treatment with meropenem (6 g/day) and ampicillin (2 g/4 hours) was started. The patient underwent a stereotactic brain biopsy with evacuation of a purulent abscess. The Gram stain of the abscess showed Gram-positive bacilli. Direct vision with potassium hydroxide showed pigmented fungal structures suggestive of dematiaceae fungi infection. Treatment with voriconazole was initiated (400 mg/day i.v.). The darkly pigmented mold isolated was identified as Cladosporium macrocarpum, and the bacteria as Streptococcus constellatus. The patient completed 30 days more of treatment with cefotaxime (2 g/6 hours i.v.) and metronidazole (1.5 g/day i.v.). He was discharged from hospital on oral amoxicillin-clavulanic acid (4 g/day) and oral voriconazole (400 mg/day). Cranial scans showed a progressive reduction of the lesions.

Brain abscesses are exceptional after endoscopic procedures [1,2]. This is, to the best of our knowledge, the first case report of a brain abscess after EUS-guided CPN. In our case, the microorganisms could have reached the brain through blood vessels by directly spreading from the upper gastrointestinal tract following CPN. The hematogenous spread, and the resulting brain abscess development was aided by the cellular immunodeficiency (characterized by lymphocytopenia). Dematiaceous fungi comprise a heterogeneous group of fungi that contain melanin in their cell walls. The most severe forms of phaeohyphomycosis are infections of the central nervous system [3,4]. Brain abscess is a rare and frequently fatal manifestation of phaeohyphomycosis, often in immunocompetent individuals. The most common species responsible is Cladophialophora bantiana [3]. The treatment requires both complete excision of the brain abscess and antifungal therapy (itraconazole, voriconazole or amphotericin B) [5]. Therapy should not be stopped until complete radiographic resolution occurs [5]. The mortality is about 100% without treatment, and 65% for those who are treated with surgery and chemotherapy [3,4].
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