A 54-year-old woman was referred in 2002 because of recurrent pneumonitis associated with bronchiectasis. Common variable immunodeficiency was diagnosed (the serum gammaglobulin level was 0.09 g/dL [normal range 1.2–1.5 g/dL]), and she was treated with immunoglobulins. In 2004, gastroscopy revealed stage 2 esophageal and gastric varices, caused by nodular regenerative hyperplasia-related portal hypertension. In 2005 the patient developed *Pseudomonas aeruginosa* pneumonitis. In February 2006, endoscopic injection sclerotherapy with cyanoacrylate glue injections was performed for gastric variceal bleeding, with antibiotic prophylaxis with cefazolin. In April 2006 she had another hematemesis and further endoscopic injection sclerotherapy was required.

In May 2006, it was believed that she had developed an infection associated with the cyanoacrylate glue on the basis of the following features: (a) she had a fever and this began after the cyanoacrylate injection; (b) bronchial bacteriology was negative; (c) there was persistent sepsis, with blood samples positive for *P. aeruginosa* despite prolonged and specific antibiotic therapy; and (d) the findings of positron emission tomography using $^{18}$F-fluorodeoxyglucose ($^{18}$F-FDG) radiotracer, with uptake at the location of the sclerotherapy (see Figure 1). Eventually, the patient was treated with meropenem and colimycin. Gastrectomy, porto-caval anastomosis, and thrombectomy of the splenic vein were performed. Multiresistant *P. aeruginosa* was isolated from all samples, including the cyanoacrylate thrombus. The patient died from intractable septic shock.

Fatal complications of endoscopic injection sclerotherapy, such as glue embolism, are rare [1]. Septicemia after endoscopic injection sclerotherapy has been reported in only a few patients who had received the recommended prophylactic antibiotics [2]. The majority of hypogammaglobulinemic patients suffer from bronchiectasis as a result of recurrent pulmonary sepsis [3]. The "usual" enterobacterial antibiotic prophylaxis (e.g. with cefazolin) might not be suitable in patients with bronchiectasis, especially in the setting of common variable immunodeficiency [4]. Of note in our patient, we were able to pinpoint the site of the infection in the glue using $^{18}$F-FDG positron emission tomographic imaging [5].

In conclusion, sclerotherapy with cyanoacrylate in patients with portal hypertension related to common variable immunodeficiency entails a specific risk of fatal sepsis, despite antibiotic prophylaxis and immunoglobulin treatment.

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**Figure 1** Positron emission tomographic scan performed in May 2006 after $^{18}$F-fluorodeoxyglucose ($^{18}$F-FDG) injection (5 MBq/kg): fused transaxial view (a) and coronal view (b). Note the $^{18}$F-FDG uptake at the location of the cyanoacrylate sclerotherapy of the gastric varices.
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