Thrombin was first described as an aneurysmal occlusion agent in 1986. Since that time its therapeutic potential has been increasingly recognized. Percutaneous injection of thrombin has been reported as effective in the management of femoral pseudoaneurysms [1,2]. We present a case of pancreatic pseudoaneurysm of the splenic artery, which was successfully treated using a new approach that consisted of thrombin injection under endoscopic ultrasound (EUS) guidance.

A 29-year-old man with a history of multiple episodes of acute pancreatitis, heavy alcohol consumption, and heavy smoking for 15 years complained of abdominal pain that worsened after meals. Examination by EUS of the pancreas identified a pseudoaneurysm at the level of the pancreatic body, which was represented by a well-defined, 4.5-cm maximal diameter echogenic lesion containing an anechoic area of 2 cm with flow detected by Doppler, which communicated with the splenic artery by a 4.5-mm neck (Fig. 1). A complementary three-dimensional (3D) computed tomography (CT) angiogram was performed, which confirmed the EUS findings (Fig. 2). Under EUS control 1 mL of thrombin (500 UI/mL) was injected into the lesion through the posterior gastric wall via a 22-G Echotip needle (Wilson Cook, Winston-Salem, North Carolina, USA), and instantaneous obliteration occurred (Fig. 3 and 4). A small focal splenic infarction without clinical relevance was identified on a CT scan performed 1 week later, which was probably due distal embolization. A repeat CT angiogram and EUS performed 4 months later confirmed persistence of the occlusion (Fig. 5).

There have been few reports published that describe the procedure of thrombin injection into visceral pseudoaneurysms under EUS guidance [3]. An important point to be considered is the presence of a small neck forming the communication between the pseudoaneurysm and the artery, which increases the success of the treatment and decreases the risk of distant embolization. EUS-guided treatment of visceral pseudoaneurysms with thrombin injection can be successfully per-
formed. Although long-term follow-up is not yet available, the technique seems to be promising.

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D. M. Chaves, F. F. M. Costa, S. Matuguma, M. E. Lera dos Santos, E. G. H. de Moura, F. Maluf Filho, P. Sakai
Gastrointestinal Endoscopy Unit, Hospital das Clínicas, São Paulo University Medical School, Brazil

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**Corresponding author**

D. M. Chaves, PhD
Hospital das Clínicas – FMUSP
Serviço de Endoscopia do Hospital das Clínicas
Av. Dr. Eneas de Carvalho Aguiar 255
Prédio dos ambulatórios, Piso 6, Sala 3
CEP-05403-900
São Paulo/SP
Brazil
dalton.chaves@fleury.com.br