The aim of this report is to describe the technique of endoscopic ultrasound (EUS)-guided pseudocyst drainage as a one-step procedure using a novel multiple wire insertion technique facilitated by the double-lumen biliary cytology brush catheter (Cook Medical, Winston-Salem, North Carolina, USA).

Six symptomatic patients underwent EUS-guided pseudocyst drainage using the novel multiple wire insertion technique (Video 1).

After ensuring that there was less than 1 cm distance between the gastric wall and the pseudocyst and excluding the presence of vasculature in the path of the needle by means of color Doppler ultrasonography, a 19-gauge needle as employed in fine-needle aspiration was used to puncture the pseudocyst under EUS guidance. A 0.035-inch guide wire was then introduced through the needle and coiled inside the pseudocyst. Subsequently, the tract was sequentially dilated over the guide wire using an endoscopic retrograde cholangiopancreatography cannula and/or a Soehendra biliary dilator, followed by dilation with a CRE Wireguided Balloon Dilator (Boston Scientific, Natick, Massachusetts, USA). The balloon was then removed, leaving the guide wire coiled in the cyst. A double-lumen biliary cytology brush catheter was used to facilitate placement of multiple guide wires into the cyst cavity as follows. The brush was completely retracted and removed from the sheath. The device was thus modified into an 8-Fr catheter with two lumens, each of which

Video 1
Endoscopic ultrasound (EUS)-guided pseudocyst drainage using a multiple wire insertion technique facilitated by the double-lumen biliary cytology brush catheter.
could accommodate a 0.035-inch guide wire. The modified catheter was subsequently advanced over the pre-positioned guide wire into the cyst cavity under endoscopic and fluoroscopic guidance. A second 0.035-inch guide wire was placed through the second lumen into the cavity, followed by removal of the catheter, leaving two guide wires in place. One or two 7-Fr, 5-cm double-pigtail stents with or without a 7-Fr nasocystic catheter were placed over the guide wires (Video 1, Fig. 1).

When three stents were placed, the biliary cytology brush was placed over one of the guide wires after placement of the first stent and a third guide wire was placed through a modified catheter as described above. Technical success was achieved in all cases (100%), with no procedural complications.

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Bibliography
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