A 57-year-old man underwent endoscopic submucosal dissection (ESD) for the treatment of early gastric cancer of the antrum (Fig. 1). There was no immediate bleeding after the procedure, and a proton pump inhibitor was given intravenously for the prevention of delayed bleeding after ESD. Twelve hours after ESD, the patient suddenly developed hematemesis and melena. His systolic blood pressure was 80 mm Hg and heart rate was 110 beats per minute. His hemoglobin level decreased from 14.5 g/dL to 9.2 g/dL. Emergency gastroscopy revealed profuse oozing of blood from the artificial ulcer with an overlying clot. Endoscopic hemostasis using hemoclips was attempted, however, cessation of bleeding was not achieved as the active oozing masked its source (Fig. 2).

Owing to hemodynamic instability, the patient underwent emergency angiography. Extravasation of contrast medium was seen from a small side branch of the left gastric artery in the antrum (Fig. 3a). The bleeding branch was successfully embolized by the placement of microcoils, both proximal and distal to the bleeding site, to prevent re-bleeding related to retrograde perfusion through the collateral vessels. No further extravasation of contrast medium was noted (Fig. 3b). The patient was discharged after 5 days of close observation and conservative treatment. Endoscopy after 1 month revealed an ESD ulcer scar, without any evidence of ischemic complications (Fig. 4).

Delayed bleeding, which is defined as hematemesis or melena at 0–30 days after the procedure, may be the most se-
rious complication of ESD [1]. Delayed re-
cognition or failure to attempt endo-
coscopic hemostasis for such an event may
cause subsequent cardiovascular com-
promise. This report suggests that super-
selective microcoil embolization can be a
lifesaving therapeutic option for endo-
copically uncontrollable bleeding after
ESD, and it can help avoiding emergency
laparotomy [2].

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