Duodenal ulceration following gastroduodenal artery embolization with coils

An 84-year-old woman was admitted to our department with epigastric pain, nausea, and vomiting. The patient had been treated for upper gastrointestinal bleeding and hemorrhagic shock 2 months earlier, with a hemoglobin level of 6.3 g/dL. The source of the bleeding was not found during several upper gastrointestinal procedures (esophagogastroduodenoscopy [EGD]), and empiric embolization of the gastroduodenal artery was performed with four fibered 0.6 × 14-cm coils (Azur Hydrocoils; Terumo Interventional Systems, Tokyo, Japan) and eight 0.4 × 3.7-cm microcoils (VortX Diamond; Boston Scientific, Natick, Massachusetts, USA). In addition, the patient received a transfusion of 5 units of blood. The subsequent clinical course was uneventful.

At the time of the current admission, examination revealed epigastric tenderness without signs of peritonitis. Blood tests revealed no abnormalities. EGD revealed a foreign body (metallic coil) eroding the duodenal mucosa, with mucosal inflammation and thinning of the mucosa overlying the metallic coil (Fig. 1). There were no signs of bleeding. A duodenal fistula was suspected, but an upper gastrointestinal series revealed no signs of a fistula (Fig. 2). The coil was left in situ because of concern for recurrent bleeding. Oral omeprazole was prescribed for 1 month at a dosage of 20 mg twice a day. After 1 month, the patient was feeling better, with resolution of the abdominal pain, nausea, and vomiting. EGD and abdominal radiography were performed. The coil had separated out, and no pathological changes were found in the duodenum during EGD (Fig. 3) and abdominal radiography (Fig. 4).

Angiographic embolization can be the best alternative for the treatment of massive hemorrhage if the patient has severe co-morbidities and contraindications at the time of surgery [1]. The most feared complication of embolization is migration of the coil, which has been reported to occur in up to 3% of cases [2]. Only two previous reports describing vascular coil erosion into the duodenum have been published [3, 4]. No treatment strategy has been established for migrated coils.

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References


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