A 65-year-old patient presented with a 2-month history of dysphagia and weight loss associated with a known squamous epithelial carcinoma of the esophagus. Computed tomography (CT) revealed the carcinoma of the distal esophagus (Fig. 1) with a liver metastasis and an intact spleen (Fig. 2). Forty years ago a Billroth II gastroenterostomy had been performed because of duodenal ulcers.

Esophagastroduodenoscopy (EGD) showed a circular malignant esophageal stenosis (Fig. 3). After the second bouginage up to a diameter of 12 mm using Savary-Gilliard bougies the stenosis was passed. Four hours after this intervention the patient developed malaise symptoms combined with nausea that were initially interpreted as a reaction to the sedation and the bouginage.

The next morning the patient became pale, hypotonic, and tachycardiac, and complained about pain radiating from the back to the abdomen and, in particular, up to the left shoulder (Kehr’s sign). The hemoglobin concentration had dropped. Immediate CT revealed a splenic rupture with an extended hemoperitoneum (Figs. 4 and 5). An emergency laparotomy was performed followed by surgical splenectomy. The postoperative course was uneventful.

Interventional EGD may cause complications such as bleeding, pain, infection, perforation, or, during sedation, cardiorespiratory problems. Some cases of splenic rupture occurring during endoscopic retrograde cholangiopancreatography [1, 2] or colonoscopy [3, 4] have been described in the medical literature. To date only a single case of splenic rupture after diagnostic EGD has been reported [5]. Rotating the endoscope within the duodenum, mechanical traction at the gastro-splenic ligament, and the formation of loops at the greater gastric curvature exerting a direct pressure onto the spleen are suspected as possible causes of splenic rupture [1].

Our patient suffered from a splenic rupture after EGD bouginage of a malignant esophageal stenosis with a history of Billroth II operation as a risk factor. This sort of complication may initially remain hidden behind unspecific symptoms, leading to a delay in diagnosis. In cases of postinterventional ailments and previous operations, splenic rupture should be taken into consideration as a rare differential diagnosis.

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Splenic rupture as a complication of endoscopic esophageal bouginage
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