Esophagobronchial fistula following injection sclerotherapy for esophageal varices

We report on two cases of esophagobronchial fistulae, which developed following endoscopic variceal injection sclerotherapy (EVIS) for bleeding esophageal varices due to schistosomal periportal fibrosis (SPPF). Both patients underwent successful surgical repair and had an uneventful outcome.

The first patient was a 22-year-old male who presented with cough following oral fluid intake for the past 2 years. The condition developed after three sessions of EVIS. Barium swallow (Fig. 1) and upper gastrointestinal endoscopy confirmed a fistula opening in the middle esophagus and communicating with the branches of the right lower bronchus. Through a right thoracotomy the tract was identified, divided, and repaired (Fig. 4).

The second patient was a 32-year-old female who presented with recurrent attacks of cough following fluid intake. The condition developed after seven sessions of EVIS for SPPF 4 years previously. Barium swallow (Fig. 2) and upper gastrointestinal endoscopy (Fig. 3) showed a fistula track between the lower esophagus and lower lobe bronchus. Through a right thoracotomy the tract was identified, divided, and repaired (Fig. 4).

EVIS and rubber band ligation are the two main standard procedures for control of variceal bleeding due to portal hypertension [1] but they are sometimes associated with complications [2], which can be serious, such as bleeding, pleural effusion, pericardial effusion with cardiac tamponade and esophageal perforation [3]. The reported incidence of esophageal stricture following EVIS in Sudan was 3%, and there were two cases (0.2%) of fatal perforation [4]. Surgical treatment is preferable. Endoscopic obliteration of both the bronchial and esophageal ends of a congenital bronchoesophageal fistula with local application of sodium hydroxide and acetic acid has been recommended for patients who are unfit for thoracotomy [5].

To our knowledge, these are the first reported cases of successful repair of esophagobronchial fistulae following EVIS for esophageal varices due to schistosomal periportal fibrosis.

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