Endovascular aortic repair for aorto-esophageal fistula in a young man:
have all loose ends been tied?

A 36-year-old man presented with a history of large-volume hematemesis. Clinical examination revealed severe pallor, hypotension, and feeble peripheral pulses. After initial resuscitation, an upper gastrointestinal (GI) endoscopy was performed, which revealed an ulcerated lesion at about 32 cm from the incisors (Fig. 1). An attempt was made to close the ulcer with endoclips but was unsuccessful (Fig. 2). Contrast-enhanced computed tomography (CT) revealed a large hematoma around the thoracic aorta, contrast outpouching, and expanding thrombus along the adjacent esophagus, suggesting the diagnosis of an aorto-esophageal fistula (Fig. 3). The aortic rent was closed using an 8 to 10-mm patent ductus arteriosus closure device, and a nasogastric tube was placed for feeding.

He was apparently asymptomatic for 39 days, after which he had a repeat bout of hematemesis. Evaluation revealed displacement of the closure device. At this juncture, thoracic endovascular aortic repair was performed and an aortic stent graft (VAMF, 26-26-150; Medtronic, Minneapolis, Minnesota, USA) was placed (Fig. 4). On subsequent follow-up, endoscopy revealed a fistulous opening, and the aortic stent graft could be visualized through the opening (video image). The option of surgery and placing a covered esophageal stent was discussed with the patient. However, he was unwilling to undergo the procedure, and therefore nasojejunal feedings were continued for 2 months to prevent infection of the stent graft. Subsequent endoscopy revealed healing of the fistulous opening with granulation tissue at the site of the previous fistulous opening (Fig. 5).

An idiopathic aorto-esophageal fistula is a rare cause of upper GI bleeding, especially in young men with no prior history of aortic surgery [1]. Early diagnosis and management are crucial owing to the high mortality associated with this condition [2]. In this video case, we presented the course of a young man diagnosed with an aorto-esophageal fistula (Video 1). In addition, we highlighted the importance of healing towards the esophageal site to prevent infection of the aortic stent graft.

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Competing interests

The authors declare that they have no conflict of interest.

The authors

Sundeep Lakhtakia1, Zaheer Nabi1, Sanjeev Kumar2, Srinivas Ila1, D. Nageshwar Reddy1
1 Asian Institute of Gastroenterology, Hyderabad, India
2 BIG Hospital, Agamkuan, Patna, India

Corresponding author

Zaheer Nabi, MD
Asian Institute of Gastroenterology, 6-3-661, Somajiguda, Hyderabad – 500 082, India
Fax: +91-40-2332-4255
zaheernabi1978@gmail.com

References