



CASE REPORT

Aortoesophageal fistula in a patient with carcinoma of the esophagus – Case report



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PALAVRAS-CHAVE

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Aorta;
Endoprótese aórtica;
Stent esofágico;
Hemorragia digestiva alta

Abstract Primary aortoesophageal fistulas (AEF) are a rare but life-threatening condition because of substantial hemorrhage, requiring fast treatment to ensure patient survival. We report a case of a 69-year-old male with diagnosis of squamous cell carcinoma of the esophagus who suffered an episode of hematemesis and hemorrhagic shock. Gastrointestinal (GI) endoscopy revealed an ulcerated lesion with pulsatile hemorrhage. CT-scan confirmed the diagnosis of AEF. A stent-graft was placed in the descending aorta to control bleeding, and 2 days later an esophageal stent was deployed to reduce risk of aortic graft infection. The patient was discharged 13 days after admission and had no other episode of GI bleeding in a 6-month follow-up period. TEVAR may be used as a palliative or bridge treatment of AEF.

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Fístula aorto-esofágica em doente com neoplasia do esófago – Caso clínico

Resumo As fistulas aorto-esofágicas (FAE) primárias são raras mas com elevada mortalidade devido à hemorragia digestiva substancial, necessitando intervenção rápida para garantir a sobrevivência do doente. Os autores apresentam um caso dum homem de 69 anos com carcinoma esofágico que teve episódio de hematemese e choque hemorrágico. A endoscopia digestiva alta mostrou lesão ulcerada com hemorragia pulsátil, a angioTC confirmou o diagnóstico de FAE. Foi colocada endoprótese na aorta descendente para controlo da hemorragia; dois dias depois

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foi colocado stent esofágico para reduzir risco de infecção da endoprótese. O doente teve alta ao décimo terceiro dia, e não foi reportada hemorragia digestiva nos seis meses de seguimento. Este caso mostra como o TEVAR pode ser usado como tratamento paliativo ou temporário duma FAE.

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Introduction

A primary aorto-esophageal fistula (AEF) is a communication between the aorta and the esophagus, without previous surgery. Being a rare entity, the most frequent causes are thoracic aortic aneurysm, foreign body ingestion and esophageal malignancy, being the thoracic aortic aneurysm by far the most common cause.¹ It is a life-threatening condition due to massive upper gastrointestinal bleeding, so prompt treatment is mandatory for patient survival.

Here we report a case of primary AEF treated successfully with a stent-graft.

Clinical case

A 63-year-old caucasian male, with coronary heart disease (NSTEMI in 2007) and known diagnosis of squamous cell carcinoma of the esophagus since early 2014, which had been staged T3N+M0 in June 2014, underwent neoadjuvant chemotherapy (two cycles of cisplatin + 5-fluorouracil) and radiotherapy (50.4 Gy) between July and September and had surgery of the esophagus scheduled for mid-October.

However, in early October he was admitted to the Emergency Department with fever (39.2 °C) plus vomits and melena for 3 days. He presented with hypotension (96/59 mmHg), and had a painless abdomen on observation. Lab results revealed a hemoglobin of 10.5 g/dL, platelets of 31,200/ μ L and reactive C protein of 15.2 mg/dL.

He was transferred to a Medicine Ward and on the next day suddenly lost conscience after an episode of hematemesis. His hemoglobin fell to 6.8 g/dL. After fluid resuscitation, the patient recovered from the hemorrhagic shock. An upper gastrointestinal endoscopy showed an ulcerated middle esophageal neoplastic lesion, with a high output, pulsatile hemorragy, with high probability of AEF (Fig. 1). A CT angiogram was performed, and identified the presence of air bubbles between the aorta and the esophagus, with irregularity of the aortic contour in this location, with extravasation of contrast in the arterial phase of the exam, suggestive of AEF (Figs. 2 and 3).

After admission in the ICU, and following a multidisciplinary discussion of the case, endovascular treatment was performed with a Cook® Zenith TX2 30 mm \times 140 mm stent graft deployed in the descending aorta, beyond the origin of the left subclavian artery (Fig. 4). Two days later a covered self-expandable esophageal stent was placed with the intent of reducing the risk of aortic stent graft infection



Figure 1 Ulcerated middle esophageal neoplastic lesion, with high output, pulsatile hemorragy.

(Fig. 5). Both procedures had no short-term complications. The patient had no more episodes of gastrointestinal bleeding, kept hemodynamic stability, and was discharged 13 days after admission in the Hospital Emergency Department.

Since then, the patient kept follow-up in outpatient clinic, is doing prophylactic therapy with amoxicillin clavulanate, and has had several re-admissions in Medicine Ward with difficult-to-control pain, dysphagia for solid food but not for liquids, and progressive weight loss. There were no more episodes of gastrointestinal bleeding reported in a 6-month follow-up period.

Discussion

This case reports a life-threatening condition that requires fast decisions in order to save a patient's life, while trying to offer a lasting solution for the esophageal and the aortic lesions.

In 1991, Hollander and Quick published a review of the available literature regarding AEF, where esophageal cancer was the third leading cause of AEF, and at that time rapid surgical intervention was recommended as the only chance for patient survival, since all the cases which had been managed in a conservative way had died of exsanguination.¹

After the introduction of endovascular aortic repair,² a new alternative for the treatment of AEF has been proposed.

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