Endoscopic mediastinal debridement for mediastinitis resulting from upper esophageal perforation

A 57-year-old woman was admitted to the intensive care unit with a 15-day history of sore throat, neck pain, upper backache, and fever following the ingestion of a tablet. Initial conservative management did not resolve the symptoms and a contrast-enhanced computed tomography (CECT) scan of the chest was performed. The scan revealed posterior mediastinitis (Fig. 1), secondary to upper esophageal perforation with bilateral pleural effusion. An endoscopic assessment revealed a large perforation just below the cricopharynx in the posterior wall (Fig. 2), with discharge of copious amount of pus. Surgical opinion was sought. The patient provided informed consent following explanation of the option of surgical drainage by thoracoscopy if endoscopic debridement was not complete.

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The patient underwent further repeat endoscopic procedures at 3 days, and 1, 2, 3, and 5 weeks. At 5 weeks, endoscopy showed complete closure of the perforation site, and CECT chest (Fig. 5) showed near complete resolution of mediastinitis and pleural effusion. To date, the patient has been followed for more than 6 months, and has been symptom free.

Mediastinitis secondary to esophageal perforation is a dreaded disease with high morbidity and mortality. The majority of patients need surgical intervention in the form of thoracotomy/thoracoscopy and esophageal repair if the condition is presented early, or esophageal diversion if presentation is late. Often the recovery is prolonged and involves multiple procedures. Endoscopic mediastinal debridement through the perforation site is a novel method of minimally invasive procedure for such cases, with minimal morbidity and good post-procedure recovery. Review of the literature shows only one case series, involving a single center and 20 cases, with the procedure being performed safely and effectively [1]. The current report describes a further case managed at a tertiary care hospital.

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Competing interests: None

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Fig. 5 Contrast-enhanced computed tomography showing resolution of the mediastinitis.

Bibliography
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