A 21-year-old man presented to gastroenterology services with progressive dysphagia, 6 weeks after ingestion of dichlorvos (2,2-dichlorovinyl dimethyl phosphate), an organophosphate insecticide used to control household pests. Barium swallow revealed a long stricture involving the middle and lower thirds of the esophagus. The difficulties, complications, and failure rates of endoscopic dilation for long strictures were explained to the patient, and surgery was advised. However, the patient wanted a trial of endoscopic management prior to surgery. Esophagogastroduodenoscopy revealed an ulceration at 27 cm and the scope could not be negotiated beyond the stricture. A second stricture starting at 24 cm was noted, and this was dilated up to 10 mm. After dilation, the scope could be passed as far as 27 cm; but further advancement was abandoned because of a circumferential ulceration seen at 27 cm.

In the immediate post-procedure period, the patient complained of right-sided neck pain. On examination, mild crepitus was felt, raising suspicion of an iatrogenic esophageal perforation. Water-soluble contrast study revealed a leak in the mid esophagus. The contrast was seen to track into the neck along the right carotid sheath as far as the skull base. Later the contrast outlined the left pericardial surface (Fig. 1, Video 1).

Our patient was immediately taken for surgery. Intraoperatively, a 3 × 1-cm perforation was seen, 10 cm below the cricopharynx. Transhiatal esophagectomy with cervical esophagostomy was done. A feeding jejunostomy was also created. The patient was discharged after an uneventful 1-week postoperative period. The patient’s condition is being improved for definitive surgery.

The carotid sheath is a condensation of cervical fascia around the common and
internal carotid arteries, the vagus nerve, and the internal jugular vein, with contributions from prevertebral, pretracheal, and deep cervical fascias. The prevertebral lamina of the cervical fascia covers anterior vertebral muscles; its superior extension is attached to the base of the skull and inferiorly it extends to the superior mediastinum and blends with the anterior longitudinal ligament. The pretracheal lamina is very thin; it is attached superiorly to the arch of the cricoid cartilage, and continues below as far as the superior mediastinum, where it fuses with the pericardium [1,2]. The esophagus and trachea are located in the space between the pretracheal and prevertebral fascia. In our patient, the leak site was at the level of the T4 vertebra (Fig. 2). The contrast first leaked into the middle mediastinum on the right side and later tracked up along the right carotid sheath to the base of skull, then spreading to the left pericardial surface (Fig. 2).

Although dichlorvos is a potentially corrosive agent, to the best of our knowledge, no human case of esophageal stricture caused by dichlorvos has been reported so far in the literature. Esophageal perforation can occur in 0.1%–0.3% patients during routine endoscopy [3,4]. Neck pain is a common presentation after cervical esophageal perforation; however, it is rarely observed in cases of thoracic esophageal perforation. Also, contrast extravasation along the carotid vessels is rare; in the present case it can be explained on the basis of the fascial attachments.

**Endoscopy_UCTN_Code_CPL_1AH_2AG**

**Competing interests:** None

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DOI http://dx.doi.org/10.1055/s-0042-109698

Endoscopy 2016; 48: E240–E241

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Stuttgart · New York

ISSN 0013-726X

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Reddy Yalaka R et al. Endoscopic esophageal perforation extending along the carotid arteries... Endoscopy 2016; 48: E240–E241