Fluoroscopic balloon dilatation with antegrade and retrograde endoscopes is useful for complete pharyngoesophageal obstruction after radiation therapy.

Radiation therapy for pharyngoesophageal cancer can lead to severe esophageal stricture in the irradiation field [1]. Balloon dilation is often the primary mode of treatment [2]; however, in cases with severe stenosis, dilation using antegrade and retrograde endoscopes is useful [3, 4]. However, it may also increase the risk of esophageal perforation [5]. Herein we report a case of fluoroscopic balloon dilation with double endoscopes that was successful for dilating a complete pharyngoesophageal obstruction due to chemoradiation therapy.

A 74-year-old man underwent chemoradiation therapy (total 7 Gy) for pharyngeal (cStage IVA) and esophageal (cStage I) cancers. Two months later, he became aware of dysfunction in swallowing. Esophageal contrast examination showed complete disruption of the influx of the contrast medium into the pharynx and esophagus (Fig. 1, Fig. 2). Surgical resection was not indicated in this case because the stenosis was located in the upper esophagus and because of the risk of anastomotic insufficiency. Therefore, we performed retrograde endoscopy with percutaneous endoscopic gastrostomy (PEG) for the esophageal obstruction (Fig. 3). We measured the length and direction of the esophageal obstruction using fluoroscopy. We used oral endoscopy to confirm the insertion of the guidewire, which was inserted through the retrograde endoscope via PEG. The guidewire was then grabbed with biopsy forceps using an oral endoscopy and dilation of the stenosis was successful (Fig. 4, Video 1). Furthermore, there were no complications, such as perforation or bleeding, after performing the procedure under fluoroscopy. No recurrence of obstruction was reported for 6 months after the dilation procedure, and the patient could consume food orally.

In conclusion, fluoroscopic balloon dilation using double endoscopes is useful for dilation in the case of complete pharyngoesophageal obstruction.

Competing interests

The authors declare that they have no conflict of interest.
Video 1 Fluoroscopic balloon dilatation using double endoscopes is useful for dilation in the case of complete pharyngoesophageal obstruction.

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