

Kissing scopes: treatment of complete esophageal obstruction using combined antegrade/retrograde approach



► **Fig. 1** Achieving continuity: light seen from scope advanced through the percutaneous endoscopic gastrostomy site.



► **Fig. 2** Esophageal stent placed across newly opened esophageal stricture.

A 75-year-old woman with a history of laryngeal cancer status post-chemoradiation, tracheostomy, and percutaneous endoscopic gastrostomy presented with dysphagia, weight loss, and inability to tolerate excess respiratory secretions. Esophagogastroduodenoscopy (EGD) 2 months prior was reported incomplete due to large Zenker's diverticulum, and the procedure was aborted. Unsuccessful attempts were made to administer oral contrast to perform an esophagram. During the procedure, the lumen was not identified despite multiple attempts. The patient's percutaneous endoscopic gas-



► **Video 1** Kissing scopes: complete esophageal obstruction treated using a combined antegrade/retrograde approach.

trostomy tube was removed externally and a pediatric gastroscope was inserted through the stoma and advanced up into the esophagus, but continuity with the upper portion was not achieved via needle knife from below. The gastrostomy tract was dilated with a balloon and a standard gastroscope was advanced through the stoma and up the esophagus (► **Fig. 1**). A needle knife was used to make a cut from below under indirect endoscopic visualization from the scope at the mouth. Dilation with a balloon dilator was performed and the stricture was stented with a 19×70-mm fully covered metal stent inserted from below and bridged with a secondary stent of the same size (► **Fig. 2**).

The patient returned 1 month later for evaluation and stent removal, and two overlapping stents were found. The gastroscope was able to traverse the previously created fistula tract without difficulty without evidence of stenosis. The stents were removed with a rat-toothed forceps. Contrast was injected at the

proximal esophagus with no extravasation noted on fluoroscopy and the procedure was terminated. After stent removal, the patient felt well and was started on a clear liquid diet and discharged. Variations of this technique have been performed [1–3]. However, this case demonstrates the use of two scopes with a combined antegrade/retrograde approach, needle knife cutting, and fully covered metal stent placement during the same setting for resolution of esophageal stenosis.

Endoscopy_UCTN_Code_TTT_1AO_2AN

Competing interests

Michel Kahaleh is a consultant for Concordia Lab and Obalon Technologies Inc. He has done research for Fuji, Pentax, Gore, Aspire, GI Dynamics, Cook, Apollo, NinePoint Medical, and Merit. He has done research and consulting for Boston Scientific. The other authors declare they have no conflict of interest.

The authors

Marina Kim, Daniel Kats, Michel Kahaleh

Rutgers Robert Wood Johnson Medical School,
Division of Gastroenterology & Hepatology, New
Brunswick, NJ, USA

Corresponding author

Marina Kim, DO

Rutgers Robert Wood Johnson Medical
School, Gastroenterology, 1 Robert Wood
Johnson Pl, New Brunswick, NJ 08901, USA
Fax: +1-732-235-7792
mpekelis@gmail.com

References

- [1] Bueno R, Swanson SJ, Jaklitsch MT et al.
Combined antegrade and retrograde dila-
tion: a new endoscopic technique in the
management of complex esophageal ob-

struction. *Gastrointest Endosc* 2001; 54:
368–372

- [2] Moyer MT, Stack BC, Mathew A. Successful
recovery of esophageal patency in 2 patients
with complete obstruction by using com-
bined antegrade retrograde dilation proce-
dure, needle knife, and EUS needle. *Gastro-
intest Endosc* 2006; 64: 789–792
- [3] Schembre D, Dever JB, Glenn M et al.
Esophageal reconstitution by simultaneous
antegrade/retrograde endoscopy: re-estab-
lishing patency of the completely obstructed
esophagus. *Endoscopy* 2011; 43: 434–
437

Bibliography

Endoscopy 2021; 53: E106–E107

DOI 10.1055/a-1195-1723

ISSN 0013-726X

published online 13.7.2020

© 2020. Thieme. All rights reserved.

Georg Thieme Verlag KG, Rüdigerstraße 14,
70469 Stuttgart, Germany

ENDOSCOPY E-VIDEOS

<https://eref.thieme.de/e-videos>



Endoscopy E-Videos is a free
access online section, reporting
on interesting cases and new

techniques in gastroenterological
endoscopy. All papers include a high
quality video and all contributions are
freely accessible online.

This section has its own submission
website at

<https://mc.manuscriptcentral.com/e-videos>

CORRECTION

**Kissing scopes: treatment of
complete esophageal obstruction
using combined antegrade/
retrograde approach**

Kim M, Kats D, Kahaleh M al.

Endoscopy 2020, 52:

10.1055/a-1195-1723

In the above-mentioned article, the
name of Daniel Kats has been
corrected. This was corrected in the
online version on July 23, 2020.