iMedPub Journals www.imedpub.com

2018 Vol.2 No.4:22

ISSN 2575-7733

DOI: 10.21767/2575-7733.1000051

Laterally Cut-Tunneling Technique for Resection of Esophagus Submucosal Tumor

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Rec date: December 13, 2018; Acc date: December 17, 2018; Pub date: December 19, 2018

Citation: Er LM, An N, Jin LY, Zheng XL, Wu ML (2018) Laterally Cut-Tunneling Technique for Resection of Esophagus Submucosal Tumor. J Clin Gastroenterol Hepatol Vol.2: No.4: 22.

Image Description

With the development of endoscopic technology, endoscopic resection of gastro esophageal Sub Mucosal Tumors (SMTs) may be gradually accepted [1,2]. An esophagus sub mucosal tumor was successfully resected by laterally cuttunneling technique (LC-TT)-a modified endoscopic method for endoscopic tunneling resection. The procedures of Endoscopic resection are as follows:

- Dissecting and exposing part of the tumors along the semiarc of the mucosa on one side of the marked lesions.
- Establishing tunnels: Separating sub mucosa along the surface of the tumors to the anal side of the tumors about 0.5-1 cm and removing the lesions along the envelope of the tumors.

Lifting the lesions sufficiently with sub mucosal injection.

• Closing the tunnel portal titanium clips. LC-TT provides an alternative to the resection of gastro esophageal SMTs.

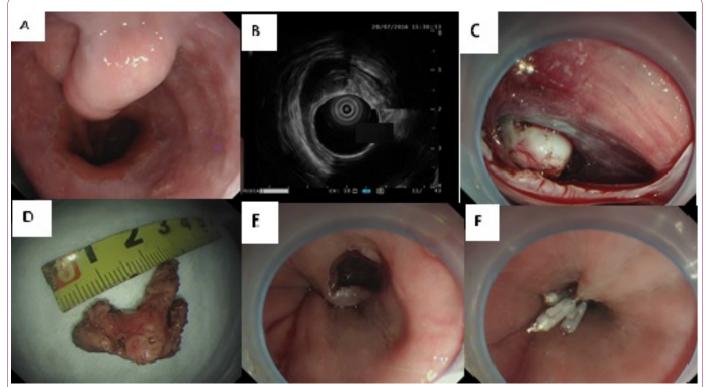


Figure 1 An esophagus submucosal tumor was successfully resected by laterally cut-tunneling technique (LC-TT). A modified endoscopic method for endoscopic tunneling resection. (A) Submucosal tumor near the dentate line; (B) Ultrasound gastroscopy showed that the mass was located in the intrinsic muscular layer; (C) Aterally cut-tunneling technique to expose the tumor body; (D) Resection of the specimen of the tumor; (E) Tunnel opening after resection of the tumor; (F) Closed the tunnel portal with titanium clips.

• Selecting the edge marking lesions to be incised.

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The tunnel portal can be effectively closed using the titanium clips, even if perforation has occurred. Tumors can be found directly to improve the efficiency of peeling; retaining the surface mucosa of the tunnel can reduce the surface of wound and facilitate to closed it completely; even if perforation occurs, the closure of the tunnel opening is similar to that of POEM and STER, but the tunnel opening is smaller than that of EFR and ESE [3-5] and the closure is relatively easy, needing no pocket suture, the operation time is further shortened. It is demonstrated that the LC-TT in treating gastro esophageal SMTs originating from the MP layer is feasible and safe (**Figure 1**).

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