

Rapid upfront stalk transection for endoscopic resection of pedunculated colorectal lesions using a grasping-type scissor forceps

The basic paradigm in endoscopic resection of pedunculated colorectal lesions includes hot snare polypectomy (HSP) with mechanical bleeding prevention techniques [1]. However, when larger, floppy polyps are present and/or the lesions are located in angulations, full endoscopic control of resection may not be guaranteed. Some groups have explored endoscopic submucosal dissection (ESD) for this purpose, and this is potentially of special relevance in cases of short- and wide-stalked lesions [2, 3]. By contrast, a more simplified and less time-consuming approach, relying on scissor-type knives, has been reported as an endoscopic bailout after conventional technique failure [4].

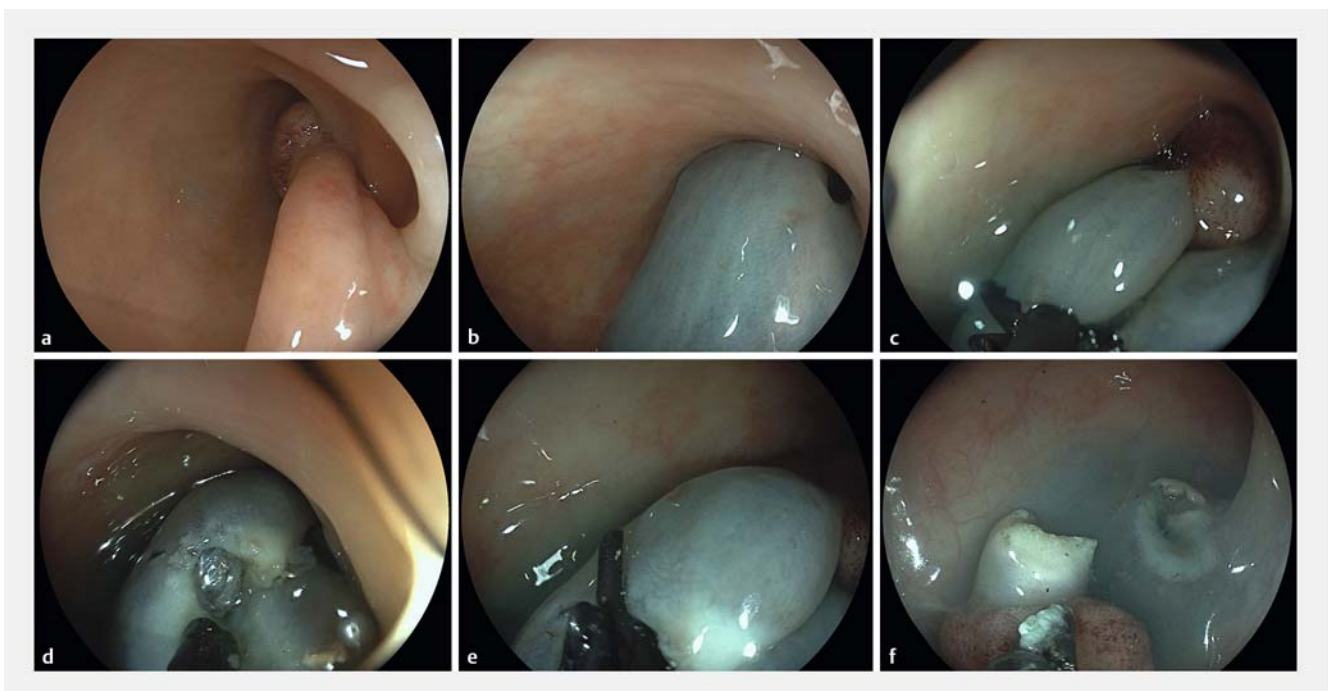
This E-Video presents the first clinical report of upfront stalk transection of a colorectal lesion using a grasping-type

scissor forceps. The procedure on this sigmoid I_p lesion, estimated at 18 mm in size, was largely opportunistic, since rectal ESD using the same device had been indicated in the first place in this 83-year-old male patient.

After adequate endoscopic visualization, the lesion is best approached with its head orally orientated and the stalk stretched, as was spontaneously the case here (► Fig. 1 a). Next, this easy-to-implement technique involves submucosal injection of about 3 mL indigocarmine–saline solution (► Fig. 1 b). Unlike in conventional HSP technique, this is followed by immediate mucosal grasping and electro-surgical cutting, using a rotatable, serrated grasping forceps with conductive inner and insulated outer blades (Clutch Cutter, 3.5 mm blade length; Fuji, Düsseldorf, Germany. Electrocautery, VIO200D;

Erbe Elektromedizin, Tübingen, Germany. Electrocautery settings for cutting: endocut Q: effect 1, duration 3, interval 1; for hemostasis: soft coagulation, effect 5, 100 W) (► Fig. 1 c; ► Video 1). This is followed by extension of mucosal cutting by the “paper cutting technique,” by which most of the submucosal stalk tissue is likewise addressed, until full stalk resection is accomplished, with hemostasis provided by soft coagulation as needed (► Fig. 1 d, e). In addition, hemoclips are placed at the resection site (► Fig. 1 f) to prevent delayed postresection bleeding. In our case, in vivo and ex vivo assessment indicated en bloc resection and histopathology confirmed wide R0 status.

Most pedunculated colorectal lesions are amenable to conventional techniques, but scissor-type knife-based stalk trans-



► **Fig. 1** a The stalk spontaneously in an orally stretched position, optimal for immediate initiation of the procedure. b The stalk turning blue after injection of 3 mL indigocarmine–saline solution. c, d First step of mucosal cutting during stalk transection with the grasping-type scissor forceps perpendicular to the stalk axis. e Extension of the cut using the “paper cutting technique.” f Final result: specimen with wide en bloc status, and unremarkable postresection defect prior to clip application.



Video 1 Rapid stalk transection for endoscopic resection of pedunculated colorectal lesions using a grasping-type scissor forceps (time from first to final cut: 198 s).

ection may be of high value in the future to address large and difficult-to-access polyp lesions.

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Competing interests

The authors declare that they have no conflict of interest.

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