

Application focus

Hybrid Resection Techniques

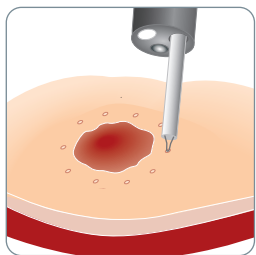
With conventional resection techniques, limits are often reached by the size of the lesion, tissue scarring, non-lifting areas, accessibility and intervention time. Hybrid resection techniques enable an individualised approach and can thus increase the rate of complete resections

while maintaining safety and efficacy.¹ This improves the histological examination as well.²

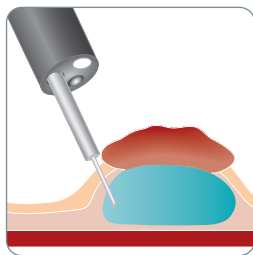
Combined techniques can be tools on the way from simple to more complex procedures and thus close important therapeutic gaps.³

Hybrid-ESD+

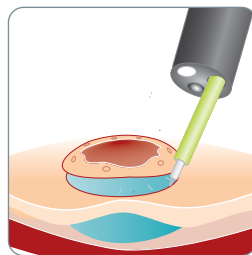
Hybrid ESD aims to shorten the duration of application through a final snare resection. However, it is often associated with a lower en bloc rate as well.⁴ The risk of a piece-meal resection in the final step can be reduced by working bimanually with a grasper in an additional working channel (Hybrid-ESD+).



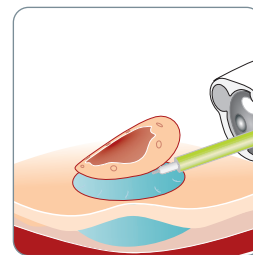
Marking



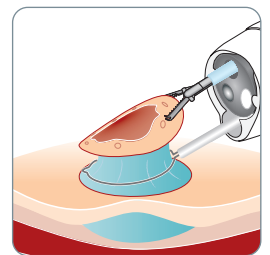
Injection of LiftUp®



Circumferential incision



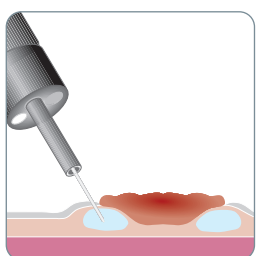
Dissection by means of
AqaNife®



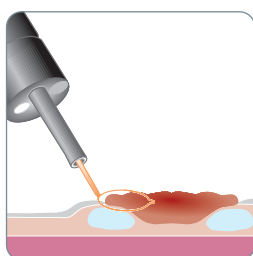
Resection in EMR+
technique with AWC®

Hybrid-FTRD®

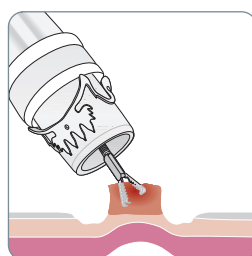
Hybrid-FTRD as a combination of EMR and FTRD in the same session, is often used for non-lifting lesions exceeding the size of a standalone FTRD resection. The hybrid technique can also offer a good solution for larger lesions with significant scarring (e.g. recurrences) and thus an uncertain success after full-thickness resection with the FTRD or incomplete EMR.



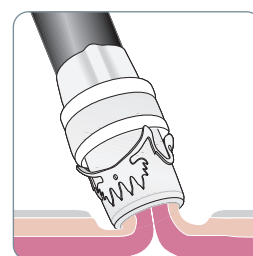
Injection into lateral
areas



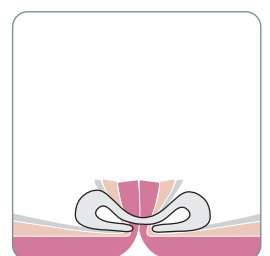
piece-meal resection



Grasping the remaining
lesion



Clip application and
snare resection



Secure closure of the
resection area

Application focus

Hybrid Resection Techniques

RESECT+

AWC® (Additional Working Channel)

- Wide range of applications: EMR+, ESD+, Hybrid-ESD+ and assisted clip removal
- Bimanual technique with traction
2 pieces per package; ref. no. 200.57.01 and 200.57.04

LiftUp® Kit

- Stable and long-lasting safety cushion
Dyed ready-to-use incl. injection needles and syringes
5 vials per package; ref. no. 200.56.02



FTRD®

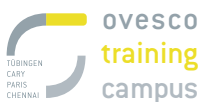
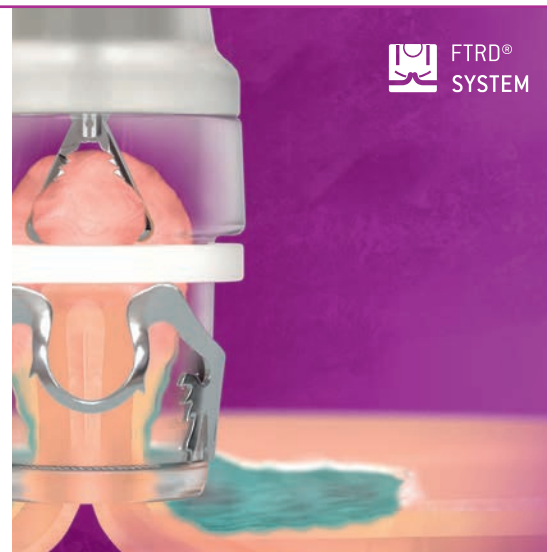
- Complete set for endoscopic full-thickness resection
- Expansion of the range of resection techniques and indications
- Improvement of histological diagnosis and risk stratification

colonic FTRD® Set, ref. no. 200.70 (colorectum)

diagnostic FTRD® Set, ref. no. 200.76 (colorectum)

gastroduodenal FTRD® Set, ref. no. 200.72 (stomach, duodenum)

1 set per package each



Regular courses on both techniques are held at the Ovesco Training Campus. Follow the QR code to our course programme and more information about the techniques.



¹Mahadev S, Vareedayah AA, Yuen S, Yuen W, Koller KA, Haber GB. **Outcomes of a hybrid technique using EMR and endoscopic full-thickness resection for polyps not amenable to standard techniques (with video)**. *Gastrointest Endosc*. 2021 Aug;94(2):358-367.e1.

²Meier B, Caca K, Schmidt A. **Hybrid endoscopic mucosal resection and full-thickness resection: a new approach for resection of large non-lifting colorectal adenomas (with video)**. *Surg Endosc*. 2017 Oct;31(10):4268-4274.

³Caca K, „Hybrid-FTRD - einfache Technik für schwierige Fälle?“ – Symposium going hybrid: Erfolgreich reseziieren mit Kombinationstechniken 51. DGE-BV Kongress, Potsdam, Deutschland/Germany. 19. – 21. Mai/May, 2022.

⁴McCarty TR, Bazarbashi AN, Thompson CC, Aihara H. **Hybrid endoscopic submucosal dissection (ESD) compared with conventional ESD for colorectal lesions: a systematic review and meta-analysis**. *Endoscopy*. 2021 Oct;53(10):1048-1058.