Transjugular intrahepatic portosystemic shunt and endoscopic submucosal dissection for treatment of early gastric cancer in a cirrhotic patient

Portal hypertension is a main source of morbidity and mortality in cirrhotic patients undergoing gastric surgery. Therefore, these patients are often rejected for gastric surgery, and portal decompression is essential prior to further invasive treatment [1].

A 63-year-old patient was admitted to our institution with acute variceal bleeding due to Child-B cirrhosis. Variceal bleeding was controlled by endoscopic band ligation. During endoscopy an intestinal adenocarcinoma (cT1N0M0) was incidentally detected. The patient was rejected for gastrectomy due to severe portal hypertension and subsequent high peri-operative risk. Because of its minimal invasiveness, transjugular intrahepatic portosystemic shunt (TIPS) combined with endoscopic submucosal dissection (ESD) seemed an appropriate treatment option (Video 1). Histologically, R0 resection was achieved but submucosal infiltration was visible (Fig. 1f). Biopsies 6 months after ESD showed no residual cancer. At follow-up 1 year later, the gastric cancer had reoccurred and was already metastatic. No hydropic decompensation, variceal bleeding, or episode of hepatic encephalopathy had occurred in the meantime.

TIPS combined with ESD seemed safe and effective in this patient not eligible for gastric surgery [1–5]. The treatment decision was based on the favorable results of ESD in early gastric cancer [3–5]. TIPS implantation was performed to minimize the bleeding risk at ESD. Despite R0 resection the gastric cancer reoccurred 1 year later. Thus, gastrectomy and radical lymph node dissection might have brought additional benefit [2]. For curative endoscopic therapy, a maximum submucosal infiltration of 500 μm is recommended. Infiltration depth evaluated by endoscopic ultrasound (EUS) has unfortunately not shown a consistent high level of accuracy [5]. Application of 30-MHz EUS probes, optical coherence tomography or confocal laser microscopy might be able to overcome these limitations [5]. Because of the rare coincidence of gastric cancer and Child-B cirrhosis, no established treatment guidelines exist, and specific treatment has to consider the perioperative risk on an individual patient basis.

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Video 1
X-ray-guided transjugular intrahepatic portosystemic shunt implantation followed by endoscopic submucosal dissection of the gastric cancer.
References

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Bibliography

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