A 58-year-old man with a history of hypertension, coronary heart disease, and diabetes mellitus type II was referred for evaluation of a rectal tumor. The patient had undergone coronary artery stenting and was taking dual antiplatelet therapy. On colonoscopy he was found to have a laterally spreading tumor, granular type. The polypoid lesion extended from the anal verge, continued on top of internal hemorrhoids, and extended proximally 5 cm into the rectum, covering about two-thirds of the rectal circumference. The patient preferred endoscopic resection to a transrectal surgery procedure. The endoscopic resection was carried out using a gastroscope and with an endoscopic submucosal dissection–endoscopic mucosal resection (ESD–EMR) hybrid technique. Post-resection inspection revealed a complete resection (endoscopic R0), several small vessels, and exposed haemorrhoids (Fig. 1). Prophylactic hemostasis was then achieved by applying oxidized regenerated cellulose. The oxidized cellulose was cut into 20 × 20 mm pieces, grasped with a clip, which had been previously advanced through the scope and then pushed through an overtube onto the resection site. The cellulose was attached through clipping proximally (Video 1). The patient had an uneventful recovery without any rectal bleeding.

Oxidized cellulose can be considered to be a “topical” hemostatic agent, similar to Hemospray (Cook Medical, Winston-Salem, North Carolina, USA) [1]. The mechanism of action of cellulose is still unclear, but data show that it activates platelets and provides mechanical hemostasis by dehydrating or through “sponge-like” mechanisms [2, 3]. Indeed, oxidized cellulose is generally used in heavy bleeding, including in liver surgery, because of its high absorptive capacity due to its dense fibrous composition. Oxidized cellulose can absorb up to seven times its physiological weight, and has
the advantage of being biodegradable, biocompatible, reabsorbed by hydrolysis, and without immunological risk [3–5].

Competing interests

Klaus Mönkemüller is a speaker and consultant for Cook Medical, USA.

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