Endoscopic submucosal dissection (ESD) requires a high skill level due to poor visualization and instability in the cutting area. Mucosal flap formation after beginning submucosal dissection is the most difficult part of the procedure but improves visibility in the cutting area and allows for easier dissection, because the mucosal flap can be lifted with an attachment fitted to the endoscope. Although traction systems for ESD were recently reported [1–5], these methods are complicated and not widely employed. We designed a simple “clip flap method” using the endoclip as a substitute for the mucosal flap until it is formed.

ESD was performed for 51 cases of superficial gastrointestinal neoplasms (24 colorectal neoplasms, 23 gastric neoplasms, 4 esophageal neoplasms) in our hospital, as follows. After circumferential incision of the mucosa (Fig. 1a) was performed, the edge of the exfoliated mucosa was clipped with one or more endoclip (Olympus, Tokyo, Japan) (Fig. 2a, b), attached in an upright manner, so that the endoscope attachment could easily pass underneath. The endoscope attachment was slipped under the endoclip as well as under the mucosal flap then the mucosa and submucosa were pulled up by the endoclip (Fig. 1b). As a result, the cutting area was clearly visualized, allowing the submucosal layer to be dissected more safely and efficiently by countertraction using the endoclip (Fig. 1c and Fig. 2c). The mucosal flap could then be formed more quickly. All tumors were resected en bloc, without perforation or severe uncontrollable bleeding. Respiratory fluctuation in the cutting area was reduced and the visual field stabilized, because the attachment was fixed by the endoclip.

The clip flap method was quite effective for most cases and especially effective for colorectal neoplasms, for which it is often difficult to form a mucosal flap when incising (Video 1). The endoclip weight could be used for countertraction, and the direction of gravity controlled by a postural change. The clip flap method is simple and very effectively enables formation of the mucosal flap.
The “clip flap method” in use in dissection of a superficial colorectal tumor (laterally spreading tumor, granular type, nodular mixed type – LST-G-NM – located in the cecum).

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Video 1

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