

Endosonography Probe-Guided Endoscopic Resection of Small Flat Rectal Carcinoid Tumor Using Band Ligation Technique

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Figure 1 Colonoscopy on a 42-year-old woman revealed a small rectal submucosal nodule.



Figure 3 The tumor was treated by endosonography probe-guided endoscopic resection using band ligation, by means of a gastroduodenoscope with an attached single-band ligator (Sumitomo Bakelite; Tokyo, Japan), and 5 ml of epinephrine-supplemented glycerin solution (gly) was injected underneath the lesion. Endosonography confirmed separation of the tumor from underlying muscle layer.

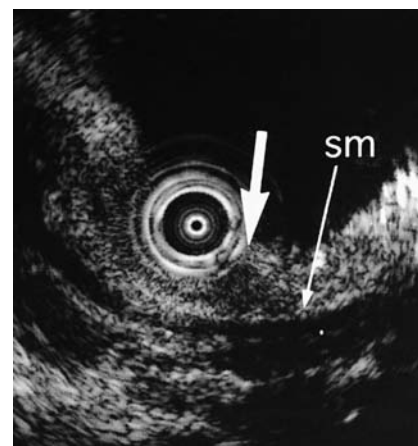


Figure 2 Subsequent endosonography using a 12-MHz ultrasound miniprobe (SP-701; Fujinon, Omiya, Japan) demonstrated a hypoechoic solid tumor (arrow) in the superficial submucosa (sm).

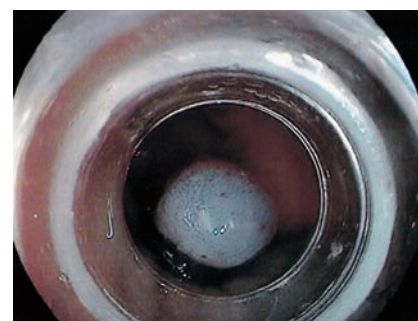


Figure 4 The lesion was aspirated into the ligator and the band was deployed, creating a bulging polyp. A snare polypectomy was performed below the band. Histological examination confirmed that the carcinoid tumor had been completely excised.