Endoscopic Removal of a Uterosigmoidoidal Polyp

Urterosigmoidostomy is the oldest and simplest form of continent urinary diversion. Although first described by Simon in 1852 [1], the procedure was not widely accepted until Coffey introduced submucosal tunnelling of the ureters in 1911 [2]. The procedure fell into disfavor with Hamner’s report of the first case of carcinoma at the ureterocolic junction [3] and with the introduction of the ileal conduit. The basic carcinogenic mechanism at the anastomotic mucosa is the interaction of urine and feces [4]; the theory involves bacterial production of nitrosamines from nitrates and endogenous amines [5].

We present a case of endoscopic removal of a benign polyp at the site of a urterosigmoidostomy in a 32-year-old man who was born with hypoplasias and bladder extrophy. At the age of 3 months he had undergone cystectomy with submucosal reimplantation of both ureters into the sigmoid wall. At 20 years he had developed mucosal carcinoma at the left ureteral ostium and segmental sigmoid resection was done with an antireflux re-insertion of both ureters. He presented 12 years later with anemia and a history of loss of blood per anum. Colonoscopy disclosed a tumor at the left ureteral stoma (Figure 1).Histological examination revealed a benign granulomatous polyp. However, after endoscopic snare polypectomy, the patient developed severe pain in his left side and fever, and ultrasound showed a dilated left renal pelvis. Percutaneous nephrostomy was necessary for 10 weeks. Thereafter, the stomal edema lessened and we found a functionally intact ostium (Figure 2a). After a follow up of 23 months the patient felt well, and he had no residual tumor or loss of function related to the urterosigmoidostomy (Figure 2b).

As well as its screening and diagnostic uses, endoscopy has a therapeutic role in selected patients with urterosigmoidostomy.

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References
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