A 64-year-old woman with high-grade dysplasia (HGD) arising in Barrett’s esophagus was referred for treatment. Endoscopy with narrow band imaging confirmed the presence of Barrett’s esophagus (Prague C13 M14) and no irregularity was detected at this level. Radiofrequency ablation (RFA) was the only treatment given, using the HALO system (BâRRX Medical Inc., Sunnyvale, California, USA) in a standard manner, by an endoscopist highly experienced in this technique [1, 2]. After measuring the inner esophageal diameter, two consecutive circumferential ablations (12 J/cm², 40 W/cm²) were carried out using a 31-mm in-diameter balloon, with removal of tissue debris between ablations using a cap-fitted endoscope. The procedure was uneventful and esomeprazole (40 mg twice daily) was prescribed. Ten weeks later the patient (still taking esomeprazole) presented with dysphagia. An upper endoscopy disclosed a stricture and neosquamous mucosa with salmon-colored islands (Fig. 1). Four-quadrant biopsies (every 2 cm) from the original Barrett’s esophagus segment disclosed no residual dysplasia, but buried glands were detected in one specimen sampled above the stricture (Fig. 2). The stricture was dilated twice with a balloon (up to a diameter of 18 mm), and 12 months after the RFA, the patient is doing well with neither residual dysphagia nor dysplasia. However, the buried glands are more widespread (detected in biopsies at four out of seven sampled levels). No more RFA has been attempted and the patient remains under close endoscopic surveillance.

RFA has recently been proposed as a treatment for not only Barrett’s HGD and intramucosal cancer [2] but also nondysplastic Barrett’s esophagus [3]. It has been suggested that RFA does not have the drawbacks associated with other ablation techniques, in particular esophageal stricture and buried glands [2]. Our patient developed symptomatic esophageal stricture after RFA alone; this could have been because of the unusual length of Barrett’s esophagus ablation [4]. Detection of buried glands has been reported in a single case after RFA [3]. This is of concern because the true extent of Barrett’s esophagus is obscured, making endoscopic screening less reliable; moreover, adenocarcinoma has been reported to arise from buried glands after other ablative techniques [5]. In our case, sampling close to a neosquamo-columnar junction seems unlikely.

References


4 Overholt BF. Photodynamic therapy strictures: who is at risk? Gastrointest Endosc 2007; 65: 67 – 69


Bibliography

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Corresponding author

J. M. Dumonceau, MD, PhD
Division of Gastroenterology and Hepatology
Geneva University Hospitals
Michelli-du-Crest street
241205 Geneva
Switzerland
Fax: +41-22-3729366
jmdumonceau@hotmail.com