Although the insertion of multiple plastic biliary stents is a well-established procedure, it can be technically difficult, particularly when proximal benign common bile duct or malignant hilar strictures must be negotiated [1]. When multiple stents are placed, it is therefore not uncommon for one or more stents to protrude markedly into the lumen of the duodenum. When faced with this situation the endoscopist has three options: to remove the protruding stent, with the risk of displacing one or more stents already in place; to attempt to reposition the stent using grasping forceps; or, finally, to leave the protruding stent in situ, which has a small associated risk of trauma to the duodenum [2] or of stent occlusion. It is well known that metal biliary or duodenal stents can be trimmed [3-5]; however, there are no available published data on tailoring plastic biliary devices.

We have developed a simple technique for shortening plastic biliary stents in situ, thereby avoiding the problems described above. The metal sheath of the mechanical lithotriptor (Innoflex IGL 1957M, 7 Fr, 165 cm) is loaded with the wire from a polypectomy snare loop from which the outer plastic sheath has been stripped. This device is then inserted through the working channel of the duodenoscope and the stent is grasped, using the snare loop, at the desired trimming point (Figure 1 and 2). The free end of the polypectomy snare wire is then attached to the lithotriptor rotator and force applied in a manner similar to when crushing a stone, with the desired effect of cutting through the plastic stent. The diameter of the trimmed stent(s) is only slightly affected (Figure 3), and at the same time the position of the inserted stents can be maintained until subsequent stent exchanges. Thus far, we have used this technique for more than 15 plastic biliary stents without any complications.

References

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