Endoscopic biliary stenting is a widely accepted method to treat benign and malignant biliary strictures [1, 2]. Multiple plastic stents are recommended for treating benign biliary strictures [3, 4]. However, there is a risk of inward migration of a previously placed stent during insertion of the subsequent stent owing to interference of the stent in the biliary stricture. In the case of surgically altered anatomy in particular, few suitable devices are available to remove a migrated stent from an inward bile duct, and it is difficult to recover the situation [5]. Therefore, it is necessary to prevent inward stent migration when placing multiple stents. Here, we report a prophylactic technique to place multiple plastic stents safely and reliably in a patient with a surgically altered anatomy (Fig. 1).

A 77-year-old man with a Roux-en-Y reconstruction was diagnosed with obstructive jaundice (Fig. 2). He was scheduled to undergo endoscopic biliary stenting using an enteroscope. After the ampulla of Vater had been reached, we inserted two guidewires across the stricture and placed the first straight-type plastic stent, leaving the guidewire in...
place without pulling it out through the stent. Subsequently, to prevent inward migration of this first stent, we pulled the guidewire back and looked for the side-hole of the stent. The guidewire was then passed through the side-hole of the first plastic stent, which subsequently prevented its inward migration during insertion of the second stent (▶ Fig. 3a). The first guidewire, now coming from the side-hole of the first stent, became stuck in place during insertion of the second biliary stent, thereby acting as an antimigration system (▶ Fig. 3b; ▶ Video 1). The patient’s obstructive jaundice resolved after placement of the biliary stents.

This technique is a useful option to prevent inward migration of a plastic stent during placement of multiple plastic stents in a patient with a surgically altered anatomy.

Competing interests
None

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DOI https://doi.org/10.1055/a-1012-1709
Published online: 2019
Endoscopy
© Georg Thieme Verlag KG
Stuttgart · New York
ISSN 0013-726X

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