A novel approach combining simultaneous side-by-side and stent-in-stent (SBSIS) placement is a promising option for high-grade malignant hilar biliary obstruction that requires triple metal stent placement [1–2]. This method can reduce technical difficulty by avoiding the inability to place the second metal stent and reducing the number of passes through the stent mesh [2]. Although currently there are no specialized metal stents for this technique, a novel braided stent with slim delivery (Niti-S Large Cell SR Slim Delivery; TaeWoong Medical, Seoul, Korea) (▶ Fig. 1) was recently developed. This stent has a large cell size that facilitates the passage of stent mesh during the stent-in-stent (SIS) procedure [3] and has a 6-Fr delivery system that enables simultaneous side-by-side (SBS) placement. Here, we report an initial case of SBSIS placement using this metal stent for malignant hilar biliary obstruction.

A 69-year-old man with unresectable pancreatic cancer developed jaundice as a result of a Bismuth type IV malignant hilar biliary obstruction due to liver metastases. For biliary stenting, endoscopic retrograde cholangiopancreatography was performed. Following the insertion of the guidewires into the left, right anterior, and right posterior hepatic ducts across the stricture, the two delivery systems were simultaneously inserted into the left and right posterior hepatic ducts and the stents were placed one by one in a SBS configuration. Then the guidewire was inserted into the right anterior hepatic duct through the mesh of the posterior stent, using the initially placed guidewire of the anterior duct as a landmark. Finally, the third metal stent was placed into the right anterior hepatic duct in a partial SIS configuration (▶ Fig. 2a and ▶ Video 1). There were no adverse events, and no recurrent biliary obstruction was observed during the follow-up period.
Because the novel metal stent is good for use in the SBS and SIS technique, it can be suitable for SBSIS placement.

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Competing interests

None

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Video 1 After simultaneous side-by-side placement into the left and right posterior hepatic ducts, a third stent was placed into the right anterior hepatic duct through the mesh of the posterior stent in a partial stent-in-stent configuration.

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