



Supplementary Materials for

Metallic Stent Mesh Coated with Silver Nanoparticles Suppresses Stent-Induced Tissue Hyperplasia and Biliary Sludge in the Rabbit Extrahepatic Bile Duct

Groups	Feed amount		EDS analysis	
	PDA ª (mg)	AgNO3 ^b (mg)	Carbon ^c (%)	Ag ^d (%)
В	15	45	28	22
С	15	90	24	34
D	15	180	20	55

Table S1. Characterization of AgNPs-coated SEMS.

^a Weight of feed dopamine hydrochloride per SEMS in 15 mL of 5 mM Tris buffer; ^b Weight of feed AgNO₃ per SEMS in 15 mL of DW; ^c Percent of carbon in the total area, as determined by EDS mapping; ^d Percent of Ag in the total area, as determined by EDS mapping; Note. DW; deionized water, PDA; dopamine hydrochloride, SEMS; self-expandable metallic stent.



Figure S1. Flow diagram and study design showing the randomization process and follow-up. Note: NZ, New Zealand; SEMS, self-expandable metallic stent; AgNPs, Ag nanoparticles.



Figure S2. Photographic and radiographic images showing the technical steps involved in stent placement in the rabbit extrahepatic bile duct. (**a**) A photograph identifying the ampulla of Vater (arrow), the extrahepatic bile duct (arrowheads), and the duodenum. (**b**) Photograph obtained during stent placement showing a compressed stent (arrowheads), which was loaded in the angiocatheter and positioned in the extrahepatic bile duct. (**c**) Photograph and radiograph showing a placed stent (arrowheads) in the rabbit extrahepatic bile duct and a pusher rod (arrows). (**d**) Post-procedural cholangiography showing good passage of contrast medium through the stent (arrowheads) without any procedure-related complications.



Figure S3. Cytotoxicity analysis of control nitinol wire, PDA-coated wire, and AgNPs-coated wire after incubation with L929 and 293 cells for different periods of time.