



Title	Risk factors for dysfunction of preoperative endoscopic biliary drainage for malignant hilar biliary obstruction
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Supplemental Table.

Univariate and multivariate analyses of risk factors for dysfunction of the initial EBD  
in the patients with unplanned re-intervention

	Univariate analysis		Multivariate analysis		
	n	<i>P</i> -value	Hazard ratio	95%CI	<i>P</i> -value
Age		0.60			
≤ 70 years	26				
> 70 years	32				
Sex		0.39			
Male	36				
Female	22				
Final diagnosis		0.70			
Cholangiocarcinoma	51				
Gallbladder cancer	7				
Bismuth-Corlette classification		0.04			
I/II/IIIa/IIIb	50		1		

IV	8	3.19	1.22-8.31	0.02
Serum T-BIL before initial EBD	0.46			
$\leq 2.0$ mg/dL	25			
$> 2.0$ mg/dL	33			
Cholangitis before initial EBD	0.37			
Absence	47			
Presence	11			
Biliary drainage method	0.06			
ENBD	44	1		
EBS	11	2.10	0.89-4.95	0.09
Size of the EBD tube/stent	0.25			
$\leq 6$ -Fr	19			
$\geq 7$ -Fr	39			
Type of EBD tube/stent	0.09			
Straight	49	1		
Pigtail	9	0.32	0.07-1.42	0.13

Endoscopic sphincterotomy                      0.14

Absence                                              31

Presence                                              27

Preoperative waiting period                      0.39

> 60 days                                              25

≤ 60 days                                              33

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EBD, endoscopic biliary drainage; EBS, endoscopic biliary stenting; ENBD,

endoscopic nasobiliary drainage; T-BIL, total-bilirubin