Table S1 The TIFB diagnostic accuracy in biliary tract invasion on preoperative imaging

Biliary tract invasion on preoperative imaging —	Consistent with the final diagnosis*		Tatal
	Consistent	Inconsistent	Total
Suspicious	33	2	35
No suspicious	4	4	8
Total	37	6	43

Continuity-adjusted chi-square test: P=0.007. *Consistent with the final diagnosis was referred to whether the biopsy diagnosis of TIFB is consistent with the final diagnosis.

Table S2 The TIFB diagnostic accuracy in bile duct obstruction site

Bile duct obstruction site	Consistent with t	Consistent with the final diagnosis*	
	Consistent	Inconsistency	Total
Proximal bile duct tree	28	3	31
Distal bile duct tree	9	3	12
Total	37	6	43

Continuity-adjusted chi-square test: P=0.418. *Consistent with the final diagnosis was referred to whether the biopsy diagnosis of TIFB is consistent with the final diagnosis.

Table S3 The TIFB diagnostic accuracy in length of obstructed segment

Length of obstructed segment	Consistent with the final diagnosis*		Total
	Consistent	Inconsistency	ΙΟΙΑΙ
≥3.00 cm	22	2	24
<3.00 cm	15	4	19
Total	37	6	43

Continuity-adjusted chi-square test: P=0.452. *Consistent with the final diagnosis was referred to whether the biopsy diagnosis of TIFB is consistent with the final diagnosis.

Table S4 The TIFB diagnostic accuracy in origin of the lesion

Origin of the lesion	Consistent with t	Consistent with the final diagnosis*	
	Consistency	Inconsistency	Total
Intra-biliary origin	23	1	24
Extra-biliary origin	5	5	10
Benign origin	9	0	9
Total	37	6	43

Fisher's precision probability test: P=0.003. *Consistent with the final diagnosis was referred to whether the biopsy diagnosis of TIFB is consistent with the final diagnosis.