

**Supplementary Table 1.** Biliary drainage and tumor biology

Tumor biology	Total (n = 399)	No biliary drainage (n = 108)	Biliary drainage (n = 291)
WD	50 (11.1)	24 (22.2)	26 (8.9)
MD	248 (55.2)	65 (60.2)	183 (62.9)
PD	100 (22.3)	18 (16.7)	82 (28.2)
UD	1 (0.2)	1 (0.9)	0 (0)

Values are presented as number (%).

WD, well differentiated; MD, moderately differentiated; PD, poorly differentiated; UD, undifferentiated.

P < 0.001.