

**Supplementary Table 1 Baseline characteristics**

Characteristics		Overall	GBC without pain	GBC with pain
No. of patients		12	6	6
Age (year)		70.2±2.7	68.0±4.2	72.3±3.6
NRS			0.3±0.2	7.2±0.7
T	T1	0	0	0
	T2	11	5	6
	T3	1	1	0
N	N0	5	2	3
	N1	7	4	3
	N2	0	0	0
M	M0	2	1	1
	M1	0	0	0
Comorbidities	Gallstones (%)	5 (41.7)	3 (50.0)	2 (33.3)
	Inflammatory bowel disease (%)	0 (0)	0 (0)	0 (0)
	Autoimmune diseases (%)	0 (0)	0 (0)	0 (0)
Prior radiotherapy or chemotherapy		0 (0)	0 (0)	0 (0)