Supplemental Data 8
Clinical Data

Patient Information			Tumour characteristics						Sample set		
ID	Gender	Age at time of operation	T	N	V	L	R	G	1	2	3
1	male	42	pT2	pN1	V1	L0	R0	G3/G4	X	X	
2	female	46	pT2	pN1	V0	L0	R0	G2	X	X	
3	female	70	pT4	pNx	V0	L0	R0	G2		X	
4	male	56	pT1	pNx	V0	L0	R0	G2		X	
5	male	31	pT1	pNx	V0	L0	R0	G2		X	
6	female	62	pT1	pNx	V0	L0	R0	G2	X	X	
7	female	77	pT1	pNx	V0	L0	R0	G2		X	
8	male	60	pT1	pN1	V0	L0	R0	G2		X	
9	female	78	pT2	pN0	V0	L0	R1	G2	X	X	
10	male	68	pT2	pN0	V1	L0	R0	G2		X	
11	female	77	pT2	pNx	V1	L0	R0	G3/G4		X	
12	female	70	pT1	pNx	V0	L0	R1	G1	X	X	
13	female	59	pTx	pNx	Vx	Lx	Rx	G2		X	
14	male	55	pT2	pNx	V0	L0	R0	G2		X	
15	male	74	pT3	pN0	V0	L0	R0	G2	X		
16	female	60	pT1	pNx	V0	L0	Rx	G2	X		
17	female	62	pT2	pNx	V0	L0	R0	G2	X		
18	female	67	pT3	pN0	V1	L1	Rx	G3/G4			X
19	female	45	pT1	pN0	V0	L0	R0	G3/G4			X
20	female	63	pT1	pNx	V0	L0	R0	G2			X
21	male	60	pT3	pNx	V0	L1	R1	G2			X
22	female	52	pT3	pN1	V0	L1	R0	G2			X
23	female	68	pT4	pNx	V0	L1	Rx	G2			X
24	female	61	pT4	pN1	V0	L1	R1	G2			X
25	male	59	pT2	pNx	V1	L1	R0	G3/G4			X
26	female	65	pT1	pNx	V0	L0	R0	G3/G4			X
27	male	68	pT2	pNx	V1	L1	R0	G3/G4			X
28	male	51	pT2	pNx	V0	L0	R0	G2			X
29	female	71	pT3	pN0	V0	L0	R1	G3/G4			X
30	female	65	pT4	pNx	V0	L0	R0	G2			X
31	female	71	pT2	pNx	V0	L0	R0	G2			X
32	male	28	pT3	pN0	V0	L0	R0	G2			X
33	male	52	pT2	pNx	V1	L0	R0	G3/G4			X
34	male	65	pT2	pN0	V0	L0	R0	Gx			X
35	female	38	pT3	pN1	V0	L1	R1	G2			X
36	female	60	pT3	pN0	V0	L0	R1	G3/G4			X
37	male	73	pT1	pNx	V0	L0	R0	G2			X
38	female	61	pT2	pN0	V0	L0	R1	Gx			X
39	female	68	pT2	pN1	V0	L0	R0	G2			X
40	female	47	pT2	pN1	V1	L0	R0	G3/G4			X
41	female	63	pTx	pNx	Vx	Lx	Rx	Gx			X
42	female	76	pT3	pNx	V0	L0	R0	G2			X
43	male	65	pT3	pN0	V0	L0	R0	G3/G4			X
44	female	76	pT2	pN1	V1	L1	R1	G3/G4			X
45	female	72	pT1	pNx	V0	L0	R0	G2			X
46	male	61	pT2	pN1	V1	L1	R1	G2			X
47	male	62	pT3	pN0	V0	L0	R1	G2			X
48	female	58	pT3	pN0	V0	L1	R0	G2			X
49	female	60	pT2	pN1	V1	L0	R0	G2			X
50	female	77	pT1	pNx	V0	L1	R0	G2			X
51	male	67	pT2	pN0	V0	L0	Rx	G2			X
52	female	62	pT2	pN0	V1	L0	R0	G3/G4			X
53	female	67	pT3	pN0	V1	L0	Rx	G2			X
54	female	50	pT3	pN0	V0	L1	R0	G2			X
55	female	61	pT1	pN0	V0	L0	R1	G2			X
56	male	37	pT2	pN1	V0	L1	R0	G2			X
57	male	77	pT2	pNx	V1	L0	R0	G2			X
58	female	62	pT1	pNx	V0	L0	R0	G2			X
59	male	56	pT1	pNx	V0	L0	Rx	G2			X
60	female	70	pT1	pN0	V0	L0	R0	G2			X
61	female	43	pT1	pNx	V0	L0	R1	G2			X
62	male	67	pT1	pN0	V0	L0	R0	G2			X
63	male	59	pT1	pN0	V0	L0	R0	G3/G4			X
64	female	68	pT1	pN1	V0	L0	R0	G3/G4			X
65	female	64	pT2	pN1	V0	L0	R0	Gx			X
66	male	73	pT3	pNx	V0	L0	R0	G2			X
67	female	77	pT4	pN1	V0	L0	R1	G2			X
68	female	58	pT3	pN1	V0	L1	R1	G2			X
69	male	76	pT1	pN0	V0	L0	R0	G2			X
70	male	59	pT4	pN1	V1	L1	R0	G3/G4			X
71	female	75	pT1	pNx	V0	L0	R0	G2			X
72	male	81	pT1	pN0	V0	L0	Rx	G2			X
73	male	66	pT1	pN0	V0	L0	R0	G3/G4			X
74	female	55	pT1	pN1	V0	L0	R0	G2			X
75	female	67	pT1	pNx	V0	L0	R0	G2			X
76	female	53	pT1	pNx	V0	L0	R0	Gx			X
77	female	75	pT1	pNx	V0	L0	R0	G2			X

Staging and grading system for cholangiocellular carcinoma[1]	
T	**Tumour stage (extent of primary tumour)**
Tx	Primary tumour cannot be assessed
T1	Solitary tumour without vascular invasion
T2	Solitary tumour with vascular invasion or multiple tumours with or without vascular invasion
T3	Tumour perforates the visceral peritoneum or directly invades adjacent extrahepatic structures
T4	Tumour with periductal invasion (periductal growth pattern)
N	**Lymph node status (regional lymph node metastasis)**
Nx	Regional lymph nodes cannot be assessed
N0	No regional lymph node metastasis
N1	Regional lymph node metastasis
V	**Venous invasion**
Vx	Venous invasion cannot be assessed
V0	No venous invasion
V1	Microscopic venous invasion
V2	Macroscopic venous invasion
L	**Lymphatic invasion**
Lx	Lymphatic invasion cannot be assessed
L0	No lymphatic invasion
L1	Lymphatic invasion
R	**Residual tumour after treatment**
Rx	Presence of residual tumour cannot be assessed
R0	No residual tumour
R1	Microscopic residual tumour
R2	Macroscopic residual tumour
G	**Histopathological grading**
Gx	Grade of differentiation cannot be assessed
G1	Well differentiated (low grade)
G2	Moderately differentiated (intermediate grade)
G3	Poorly differentiated (high grade)
G4	Undifferentiated (high grade)

1. Sobin, L., Gospodarowicz, M. and Wittekind, C. (eds.) (2009) Liver – Intrahepatic Bile Ducts, IN: TNM Classification of Malignant Tumours, 7th Ed., pp:114-117, UICC, Wiley-Blackwell, Hoboken, New Jersey, USA.