

Table 1 Basic information of liver cancer patients treated with sorafenib

Variable	Cases	MiT	MaT	MaTM	MaTN	<i>p</i>
Gender (F vs. M)	9	1	3	1	4	0.270
	98	17	52	12	17	
Age (≤ 55 vs. >55 yrs)	47	6	22	6	13	0.282
	60	12	33	7	8	
HBV (-vs.+)	23	5	7	4	7	0.112
	84	13	48	9	14	
AFP (≤ 400 vs. >400 ng/mL)	74	16	41	10	7	0.001
	33	2	14	3	14	
Child-Pugh score (0-4 vs. 5-7)	89	16	43	13	17	0.273
	18	2	12	0	4	
BCLC (A-B vs. C)	15	4	8	3	0	0.084
	92	14	47	10	21	
Tumour size (≤ 5 vs. >5 cm)	54	12	30	6	6	0.093
	53	6	25	7	15	
Tumour number (≤ 3 vs. >3)	78	13	38	11	16	0.751
	29	5	17	2	5	
MVI (- vs.+)	67	15	35	12	5	<0.001
	40	3	20	1	16	
Satellite nodules (N vs. Y)	80	16	36	12	16	0.103
	27	2	19	1	5	
Cirrhosis (N vs. Y)	23	7	9	1	6	0.109
	84	11	46	12	15	
ES grade (I - II vs. III- IV)	31	5	16	3	7	0.944

Table2 Univariate and multivariate analyses of clinic-pathological factors associated with PFS and OS

Variable	PFS				OS			
	Univariate analysis		Multivariate analysis		Univariate analysis		Multivariate analysis	
	HR (95% CI)	<i>p</i>	HR (95% CI)	<i>p</i>	HR (95% CI)	<i>p</i>	HR (95% CI)	<i>p</i>
Gender (F vs. M)	1.092(0.546-2.180)	0.804			0.720(0.360-1.439)	0.353		
Age(≤55 vs. >55yrs)	0.985(0.666-1.456)	0.939			0.946(0.628-1.427)	0.792		
HBV (-vs. +)	0.725(0.447-1.175)	0.192			0.816(0.491-1.358)	0.435		
AFP (≤400 vs. > 400ng/mL)	1.102(0.726-1.674)	0.648			1.563(1.015-2.406)	0.043	0.831(0.499-1.382)	0.475
Child-Pugh score (0-4 vs.5-7)	1.143(0.683-1.913)	0.611			1.081(0.638-1.832)	0.772		
BCLC (A-B vs. C)	2.577(1.394 -4.765)	0.003	1.964(1.030-3.748)	0.041	2.029(1.076-3.827)	0.029	1.541(0.770-3.082)	0.221
Tumour size (≤5 vs. >5cm)	1.407(0.950-2.084)	0.088			1.930(1.269-2.933)	0.002	1.656(1.079-2.550)	0.021
Tumour number (≤3 vs. >3)	1.631(1.041-2.555)	0.033	1.583(0.995-2.518)	0.053	1.230(0.764-1.981)	0.394		
MVI (- vs.+)	1.894(1.245-2.880)	0.003	1.503(0.961-2.350)	0.074	1.951(1.279-2.975)	0.002	1.652(1.072-2.547)	0.023
Satellite nodules (N vs.Y)	0.914(0.584-1.430)	0.693			1.165(0.731-1.858)	0.521		
Cirrhosis (N vs. Y)	0.924(0.580-1.473)	0.740			0.939(0.558-1.579)	0.812		

ES grade(I - II vs. III-IV)	0.985(0.638-1.521)	0.945			0.965(0.613-1.519)	0.878		
Histological classification	1.305 (1.046-1.627)	0.018	1.089(0.842-1.410)	0.516	1.349(1.073-1.697)	0.010	0.998(0.747-1.334)	0.991
HIF1 α (negative vs. positive)	1.430(0.706-2.893)	0.320			1.214(0.596-7.474)	0.593		
RAP1GAP (low vs. high)	0.653(0.397-1.073)	0.093			0.661(0.391-1.120)	0.124		
RAP1GAP-EC (low vs. high)	2.105(1.333-3.324)	0.001	1.886(1.163-3.058)	0.010	2.148(1.373-3.360)	0.001	1.845(1.166-2.918)	0.009