

Prognostic role of HMGB1 for gallbladder cancer

Table S1. The association of HMGB1 expression with various clinicopathological characteristics of patients with AC gallbladder cancer

Clinicopathological characteristics	Total NO.	HMGB1		P value
		Positive No. (%)	χ^2 value	
Gender				
Male	33	15 (45.5)	0.244	0.621
Female	47	24 (51.1)		
Age (Year)				
≤45	18	8 (44.4)	0.172	0.678
>45	62	31 (50.0)		
Differentiation grade				
Well-differentiated	30	11 (36.7)	0.858	0.651
Moderately-differentiated	27	13 (48.1)		
Poorly-differentiated	23	15 (65.2)		
Maximal tumor diameter (cm)				
≤3	49	19 (38.8)	5.035	0.025
>3	31	20 (64.5)		
Cholecystolithiasis				
No	36	17 (47.2)	0.061	0.805
Yes	44	22 (50.0)		
TNM stage				
I+II	29	11 (37.9)	2.439	0.295
III	38	20 (52.6)		
IV	13	8 (61.5)		
Lymph node metastasis				
No	34	15 (44.1)	0.508	0.476
Yes	46	24 (52.2)		
Regional invasion				
No	35	16 (45.7)	0.230	0.632
Yes	45	23 (51.1)		
Surgical method				
Radical	31	13 (41.9)	2.782	0.256
Palliative	27	12 (44.4)		
Without resection	22	14 (63.6)		
Her-2 expression				
Positive	30	16 (53.3)	0.404	0.525
Negative	50	23 (46.0)		
ER expression				
Positive	61	34 (55.7)	5.020	0.025
Negative	19	5 (26.3)		
PR expression				
Positive	59	29 (49.2)	0.015	0.904
Negative	21	10 (47.6)		
P53 expression				
Positive	64	32 (50.0)	0.200	0.655
Negative	16	7 (43.8)		
Ki-67 expression				
Positive	65	35 (53.8)	3.604	0.058
Negative	15	4 (26.7)		
Nm23 expression				
Positive	16	4 (31.3)	4.515	0.034
Negative	64	35 (53.1)		

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Table S2. The association of HMGB1 expression with various clinicopathological characteristics of patients with SC/ASC gallbladder cancer

Clinicopathological characteristics	Total NO.	HMGB1		P value
		Positive No. (%)	χ^2 value	
Gender				
Male	20	11 (55.0)	0.288	0.592
Female	32	20 (62.5)		
Age (Year)				
≤45	11	6 (54.5)	0.146	0.702
>45	41	25 (63.4)		
Differentiation grade				
Well-differentiated	19	8 (42.1)	7.102	0.029
Moderately-differentiated	18	10 (55.6)		
Poorly-differentiated	15	13 (86.7)		
Maximal tumor diameter (cm)				
≤3	32	15 (46.9)	5.609	0.018
>3	20	16 (80.0)		
Cholecystolithiasis				
No	24	14 (58.3)	0.030	0.862
Yes	28	17 (60.7)		
TNM stage				
I+II	15	6 (40.0)	3.661	0.056
III	28	18 (64.3)		
IV	9	7 (77.8)		
Lymph node metastasis				
No	21	9 (42.9)	4.109	0.043
Yes	31	22 (71.0)		
Regional invasion				
No	22	11 (50.0)	1.464	0.226
Yes	30	20 (66.7)		
Surgical method				
Radical	19	8 (42.1)	5.025	0.081
Palliative	18	11 (61.1)		
Without resection	15	12 (80.0)		
Her-2 expression				
Positive	21	13 (61.9)	0.077	0.782
Negative	31	18 (58.1)		
ER expression				
Positive	40	27 (67.5)	4.390	0.036
Negative	12	4 (33.3)		
PR expression				
Positive	38	23 (60.5)	0.049	0.825
Negative	14	8 (57.1)		
P53 expression				
Positive	42	25 (59.2)	0.001	0.978
Negative	10	6 (60.0)		
Ki-67 expression				
Positive	43	29 (67.4)	6.199	0.013
Negative	9	2 (22.2)		
Nm23 expression				
Positive	10	3 (30.0)	4.424	0.035
Negative	42	28 (66.7)		

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Table S3. Univariate analysis of survival for 80 patients with AC gallbladder cancer

Characteristics	Category	No.	Average survival time (Month)	95% CI (Month)	P value
HMGB1 expression	Positive	39	9.5	6.3-12.7	<0.05
	Negative	41	20.1	13.9-26.3	
Maximal tumor diameter	≤3 cm	49	25.6	15.3-35.9	<0.05
	>3 cm	31	12.0	8.5-15.5	
TNM stage	I+II	29	30.6	23.2-38.0	<0.05
	III	38	11.1	7.3-14.9	
	IV	13	7.6	5.4-9.80	
Lymph node metastasis	No	34	18.1	12.6-23.6	<0.05
	Yes	46	9.7	5.5-13.9	
ER expression	Positive	61	17.5	12.0-23.0	<0.05
	Negative	19	10.5	6.2-14.8	
Ki-67 expression	Positive	65	10.3	6.1-14.5	<0.05
	Negative	15	17.9	12.1-23.7	
Nm23 expression	Positive	16	18.1	12.6-23.6	<0.05
	Negative	64	9.7	5.6-13.8	

Table S4. Multivariate Cox regression analysis of survival for 80 patients with AC gallbladder cancer

Characteristics	Category	Hazard ratio (HR)	95% CI	P value
HMGB1 expression	Positive	3.05	1.10-8.47	<0.05
	Negative			
Maximal tumor diameter	≤3 cm	1.58	0.84-3.20	<0.05
	>3 cm			
TNM stage	I+II	1.77	1.01-3.03	<0.05
	III			
	IV			
Lymph node metastasis	No	3.31	1.41-7.73	<0.05
	Yes			
Ki-67 expression	Positive	2.43	1.25-4.73	<0.05
	Negative			
Nm23 expression	Positive	2.86	1.14-6.36	<0.05
	Negative			

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Table S5. Univariate analysis of survival for 52 patients with SC/ASC gallbladder cancer

Characteristics	Category	No.	Average survival time (Month)	95% CI (Month)	P value
HMGB1 expression	Positive	31	10.4	7.2-13.6	<0.05
	Negative	21	21.5	14.4-28.6	
Maximal tumor diameter	≤3 cm	32	24.4	14.1-34.7	<0.05
	>3 cm	20	13.2	8.9-17.5	
Differentiation degrade	Well-differentiated	19	29.5	22.7-36.3	<0.05
	Moderately-differentiated	18	11.4	7.9-14.9	
	Poorly-differentiated	15	6.7	4.3-9.1	
TNM stage	I+II	15	28.3	20.1-36.5	<0.05
	III	28	10.3	6.7-13.9	
	IV	9	7.4	5.1-9.7	
Lymph node metastasis	No	21	17.0	11.4-22.6	<0.05
	Yes	31	9.1	5.0-13.2	
Regional invasion	No	22	18.3	12.7-23.9	<0.05
	Yes	30	8.4	4.3-12.5	
ER expression	Positive	40	17.3	12.0-22.6	<0.05
	Negative	12	12.3	8.4-16.2	
Ki-67 expression	Positive	43	9.1	5.2-13.0	<0.05
	Negative	9	16.2	11.4-21.0	
Nm23 expression	Positive	10	16.3	10.3-22.3	<0.05
	Negative	42	8.5	4.3-12.7	

Table S6. Multivariate Cox regression analysis of survival for 52 patients with SC/ASC gallbladder cancer

Characteristics	Category	Hazard ratio (HR)	95% CI	P value
HMGB1 expression	Positive	3.09	1.19-8.06	<0.05
	Negative			
Differentiation degrade	Well-differentiated	3.20	1.08-9.83	<0.05
	Moderately-differentiated			
	Poorly-differentiated			
Maximal tumor diameter	≤3 cm	1.76	0.75-4.11	<0.05
	>3 cm			
TNM stage	I+II	1.65	0.65-1.65	<0.05
	III			
	IV			
Lymph node metastasis	No	3.25	1.37-7.72	<0.05
	Yes			
Ki-67 expression	Positive	2.30	1.12-4.74	<0.05
	Negative			
Nm23 expression	Positive	3.81	1.45-9.96	<0.05
	Negative			