

Table S1. Association of clinical, histopathological and immunohistopathological markers with prognostic factors

Characteristics	Stage 1-2	Stage 3-4	p-value	No Metastases at diagnosis	Metastases at diagnosis	p-value
<i>Clinical</i>						
-Size	9 (4-12)	12(1-24)	0.107	9(1-24)	13.2(9.5-17)	0.039
-Functionality [n (%)]	7 (53.9)	8(72.7)	0.423	2(15.4)	3(27.3)	0.630
<i>Histopathological</i>						
-Weiss [median (min-max)]	5(4-8)	7(6-9)	0.005	6(4-8)	6(6-9)	0.414
Helsinki [median (min-max)]	24(10-38)	33(20-56)	0.096	30(10-56)	25.5(23-48)	0.788
-Capsular invasion [n (%)]	5(55.6)	14(93.3)	0.047	14(73.7)	5(100)	0.544
-Vascular invasion [n (%)]	3(33.3)	8(53.3)	0.423	7(36.8)	4(80)	0.142
-Nuclear atypia [n (%)]	8(88.9)	15(100)	0.375	18(94.7)	5(100)	0.999
-Mitoses >20 per 50HPF [n (%)]	2(22.2)	9(60)	0.105	8(42.1)	3(60)	0.630
Reticulin [score 4, n (%)]	3(37.5)	6(60)	0.637	7(50)	2(50)	0.999
<i>Immunohistopathological</i>						
[median (min-max)]						
-Ki-67%	17(15-30)	30(15-45)	0.095	22 (15-45)	30(15-40)	0.611
-p27 [IRS]	12(4-12)	12(9-12)	0.565	12(4-12)	9(9-12)	0.756
-p53 [pathological, n (%)]	7(87.5)	8(88.9)	0.999	11(84.6)	4(100)	0.999
-P53(WT/overexpression 21-50%/ ≥50%, n(%))	1(12.5)/5(62.5)/2(25)	1(11.1)/3(33.3)/5(55.6)	0.420	2(15.4)/8(61.5)/3(23.1)	0(0)/0(0)/4(100)	0.035

Abbreviations: ACC; Adrenal cortical carcinoma, HPF; High-power fields, IRS; Immunoreactive score, WT; Wild type

Table S2. Univariate Cox Regression Analysis for Risk Factors Associated with PFS and OS in 24 Patients with ACC

	PFS		OS	
	Hazard Ratio	p-value	Hazard Ratio	p-value
Clinical characteristics				
Age (years)	1.04	0.154	1.02	0.558
Sex (Women)	0.38	0.149	0.51	0.407
Size (mm)	1.04	0.330	1.02	0.748
Functionality	7.02	0.003	5.22	0.046
Metastatic presentation	1.81	0.333	2.87	0.152
Histopathological characteristics				
Weiss (≥ 6)	6.34	0.078	-	-
Helsinki	1.02	0.337	1.02	0.499
Stage (3 or 4)	3.81	0.047	3.23	0.155
Reticulin score	0.88	0.862	0.84	0.837
Immunohistochemical characteristics				
Ki-67%	1.03	0.352	1.02	0.576
Capsular invasion	3.62	0.217	1.96	0.527
Vascular invasion	1.61	0.396	2.07	0.317
Mitoses >20 per 50 HPF	2.48	0.113	1.42	0.619
Atypical mitoses	1.28	0.750	-	-
P27 (IRS)	0.81	0.140	0.90	0.447
P53 (pathological)	1.39	0.757	-	-
P53 (WT/ overexpression 20-49% vs. $>50\%$)*	3.99	0.032	-	-

*as continuous variable

Abbreviations: PFS; Progression free survival, OS; Overall survival, ACC; Adrenal cortical carcinoma, HPF; High-power fields, IRS; Immunoreactive score, WT; Wild type

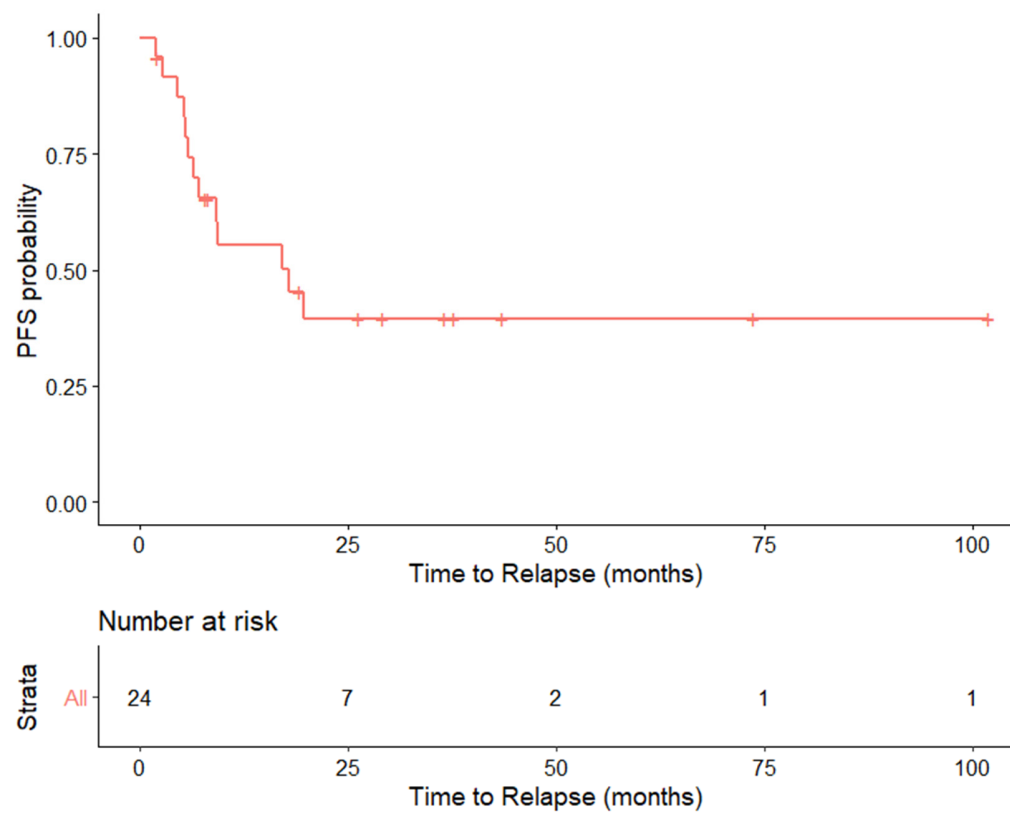


Figure S1. Kalpan Meier curve for PFS of patients with ACC

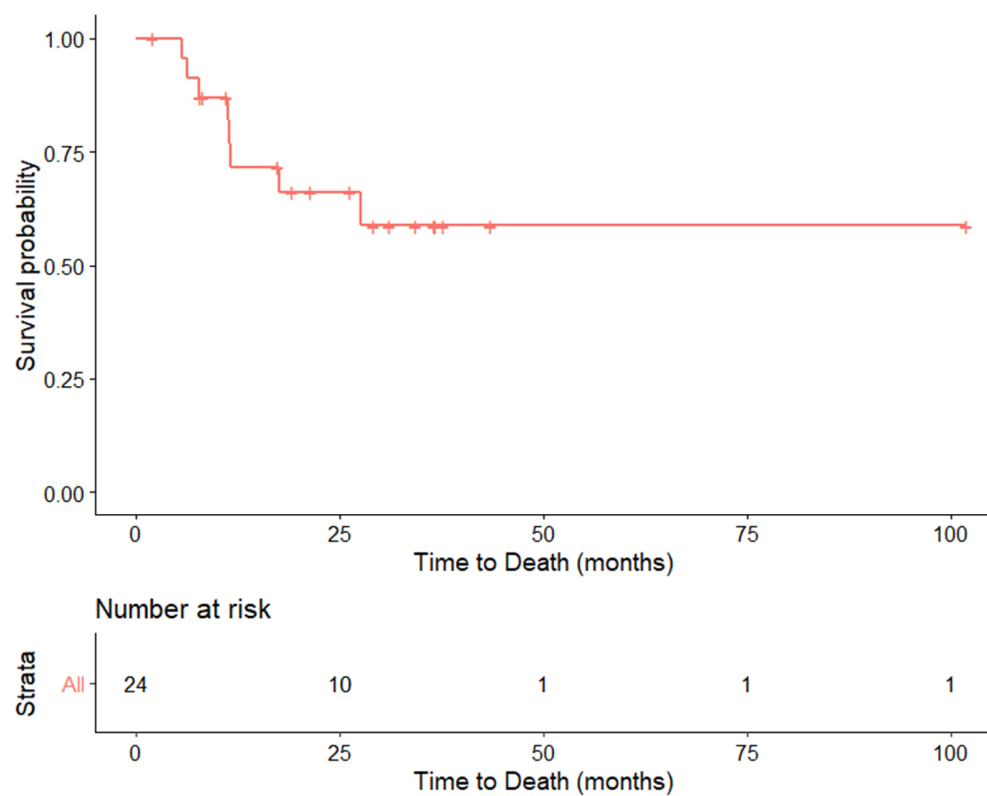


Figure S2. Kaplan Meier curve for OS of patients with ACC