

Table SI. Clinical variables of the whole cohort grouped by pathological differentiation.

Variable	Overall (n=224)	Well differentiated (n=46)	Non-well differentiated (n=178)	P-value ^a
Age, years	60.000 (54.000-69.000)	57.000 (48.500-69.500)	60.000 (55.000-69.000)	0.170
CEA, ng/ml	2.505 (1.408-8.123)	1.990 (1.135-5.500)	2.565 (1.505-8.368)	0.112
CA 19-9, U/ml	13.645 (7.890-28.638)	10.155 (6.698-17.348)	14.520 (8.318-31.003)	0.014
AST, U/l	20.900 (17.000-26.025)	25.100 (17.175-32.150)	20.265 (17.000-25.450)	0.017
PA, mg/l	205.050 (168.850-247.125)	203.400 (162.483-251.200)	205.050 (171.625-246.900)	0.802
A/G	1.455 (1.310-1.623)	1.495 (1.313-1.653)	1.450 (1.310-1.618)	0.541
TBIL, μ mol/l	11.400 (8.600-14.700)	11.800 (8.880-13.300)	11.360 (8.300-15.000)	0.921
DBIL, μ mol/l	3.600 (2.700-4.909)	3.625 (2.850-4.575)	3.600 (2.663-4.926)	0.989
ALT, U/l	16.050 (11.793-23.000)	21.000 (13.025-37.875)	15.250 (11.000-20.975)	0.001
LAC, mmol/l	2.225 (1.735-2.870)	2.055 (1.703-2.588)	2.310 (1.753-2.923)	0.088
Cr, μ mol/l	68.050 (57.150-78.000)	69.250 (56.300-75.075)	67.950 (57.525-78.000)	0.945
ALP, U/l	81.200 (68.375-100.000)	81.300 (69.250-99.000)	81.200 (68.125-100.000)	0.640
GGT, U/l	19.000 (13.300-33.000)	22.350 (14.850-30.075)	19.000 (13.000-33.000)	0.246
ADA, U/l	10.600 (8.190-13.188)	10.500 (8.025-12.685)	10.650 (8.300-13.375)	0.421
LAP, U/l	31.400 (27.975-36.325)	32.250 (28.075-38.875)	31.400 (27.775-35.475)	0.362
WBC, $\times 10^9/l$	6.270 (5.260-7.458)	6.130 (5.093-7.043)	6.320 (5.303-7.740)	0.220
RBC, $\times 10^{12}/l$	4.340 (3.918-4.723)	4.440 (3.870-4.680)	4.300 (3.935-4.760)	0.997
ALB, g/l	41.750 (38.800-45.000)	42.050 (38.575-44.300)	41.650 (38.850-45.075)	0.802
Hb, g/l	128.500 (112.750-143.000)	134.000 (113.000-145.500)	127.000 (112.250-142.000)	0.400
PLT, $\times 10^9/l$	202.000 (160.500-250.500)	196.500 (168.250-235.500)	205.000 (159.000-257.750)	0.673
Neu, $\times 10^9/l$	4.200 (3.175-5.095)	3.980 (3.010-4.923)	4.270 (3.233-5.353)	0.237
Lym, $\times 10^9/l$	1.450 (1.030-1.883)	1.585 (1.113-1.818)	1.410 (1.030-1.928)	0.485
Mono, $\times 10^9/l$	0.380 (0.300-0.480)	0.360 (0.300-0.438)	0.385 (0.300-0.508)	0.338
HALP score	38.352 (23.608-53.684)	42.607 (25.597-53.052)	37.962 (23.232-54.021)	0.602
Sex				0.733
Female	78 (34.8)	17 (37.0)	61 (34.3)	
Male	146 (65.2)	29 (63.0)	117 (65.7)	
Grade				0.312
IIIA	120 (53.6)	25 (54.3)	95 (53.4)	

IIIB	87 (38.8)	20 (43.5)	67 (37.6)	
IVA	17 (7.6)	1 (2.2)	16 (9.0)	
T stage				0.060
T2	16 (7.1)	7 (15.2)	9 (5.1)	
T3	124 (55.4)	22 (47.8)	102 (57.3)	
T4	84 (37.5)	17 (37.0)	67 (37.6)	
N stage				0.234
N0	18 (8.0)	2 (4.3)	16 (9.0)	
N1	78 (34.8)	21 (45.7)	57 (32.0)	
N2	125 (55.8)	22 (47.8)	103 (57.9)	
N3	3 (1.3)	1 (2.2)	2 (1.1)	
M stage				0.134
M0	205 (91.5)	45 (97.8)	160 (89.9)	
M1	19 (8.5)	1 (2.2)	18 (10.1)	
CRM				0.527
(-)	87 (38.8)	16 (34.8)	71 (39.9)	
(+)	137 (61.2)	30 (65.2)	107 (60.1)	
EMVI				0.567
(-)	56 (25.0)	13 (28.3)	43 (24.2)	
(+)	168 (75.0)	33 (71.7)	135 (75.8)	
Distance from anus verge				0.580
<5 cm	86 (38.4)	16 (34.8)	70 (39.3)	
5-10 cm	109 (48.7)	22 (47.8)	87 (48.9)	
>10 cm	29 (12.9)	8 (17.4)	21 (11.8)	
Tumor length				0.247
<2 cm	14 (6.3)	5 (10.9)	9 (5.1)	
2-5 cm	143 (63.8)	30 (65.2)	113 (63.5)	
>5 cm	67 (29.9)	11 (23.9)	56 (31.5)	

Data are presented as the median (interquartile range or n (%)). ^aDetermined using the Wilcoxon rank sum test, Pearson's χ^2 or Fisher's exact test. CEA, carcinoembryonic antigen; CA 19-9, carbohydrate antigen 19-9; AST, aspartate aminotransferase; PA, prealbumin; A/G, albumin-to-globulin ratio; TBIL, total bilirubin; DBIL, direct bilirubin; ALT, alanine transaminase; LAC, lactate; Cr, creatinine; ALP, alkaline phosphatase; GGT, γ -glutamyl transferase; ADA, adenosine deaminase; LAP, leucine aminopeptidase; WBC, white blood cell; RBC, red blood cell; ALB, albumin; Hb, hemoglobin; PLT, platelet; Neu, neutrophil; Lym, lymphocyte; Mono, monocyte; HALP, Hb, ALB Lym, platelet; T, tumor; N, node; M, metastasis; CRM, circumferential resection margin; EMVI, extramural vascular invasion.