

Supplementary Table. The association between clinicopathological factors and PD-1, PD-L1 expression, CD45RO, and MMR status of intestinal-type gastric adenocarcinoma

Variables	TICs-PD-1		TCs-PD-1			TILs-CD45RO		TICs-PD-L1		TCs-PD-L1		MMR status	
	<10%	≥10%	Negative	1-50%	>50%	≤135	>135	<1%	≥1%	<1%	≥1%	Deficient	Proficient
	<i>p-value</i>		<i>p-value</i>			<i>p-value</i>		<i>p-value</i>		<i>p-value</i>		<i>p-value</i>	
Age	0.886		0.848*			0.989		0.497		0.473		1.000*	
≤64	8 (47.1)	26 (49.1)	26 (49.1)	5 (55.6)	3 (37.5)	16 (48.5)	18 (48.6)	14 (53.8)	20 (45.5)	26 (46.4)	8 (57.1)	2 (40.0)	32 (49.0)
>64	9 (52.9)	27 (50.9)	27 (50.9)	4 (44.4)	5 (62.5)	17 (51.5)	19 (51.4)	12 (46.2)	24 (54.5)	30 (53.6)	6 (42.9)	3 (60.0)	33 (50.0)
Sex	1.000*		0.007*			0.790		0.698		1.000*		0.597*	
Male	13 (76.5)	39 (73.6)	44 (83.0)	5 (55.6)	3 (37.5)	25 (75.8)	27 (73.0)	20 (76.9)	32 (72.7)	41 (73.2)	11 (78.6)	3 (60.0)	49 (75.4)
Female	4 (23.5)	14 (26.4)	9 (17.0)	4 (44.4)	5 (62.5)	8 (24.2)	10 (27.0)	6 (23.1)	12 (27.3)	15 (26.8)	3 (21.4)	2 (40.0)	16 (24.6)
Tumor location	0.221		0.196*			0.784		0.303		1.000*		0.647*	
Cardia	4 (23.5)	20 (40.0)	16 (31.4)	3 (37.5)	5 (62.5)	12 (37.5)	12 (34.3)	7 (28.0)	17 (40.5)	19 (35.2)	5 (38.5)	1 (20.0)	23 (37.1)
Non-Cardia	13 (76.5)	30 (60.0)	35 (68.6)	5 (62.5)	3 (37.5)	20 (62.5)	23 (65.7)	18 (72.0)	25 (59.5)	35 (64.8)	8 (61.5)	4 (80.0)	39 (62.9)
Gastrectomy	1.000*		0.178*			0.982		0.600		0.045*		0.119*	
Total	12 (70.6)	39 (73.6)	36 (67.9)	7 (77.8)	8 (100.0)	24 (72.2)	27 (73.0)	18 (69.2)	33 (75.0)	44 (78.6)	7 (50.0)	2 (40.0)	49 (75.4)
Distal sub-total	5 (29.4)	14 (26.4)	17 (31.1)	2 (22.2)	0 (0.00)	9 (27.3)	10 (27.0)	8 (30.8)	11 (25.0)	12 (21.4)	7 (50.0)	3 (60.0)	16 (24.6)
LVI	0.679		0.848*			0.147		0.073		0.056		0.192*	
Yes	8 (47.1)	28 (52.8)	27 (50.9)	4 (44.4)	5 (62.5)	20 (60.6)	16 (43.2)	29 (55.8)	7 (38.9)	32 (57.1)	4 (28.6)	1 (20.0)	35 (53.8)
No	9 (52.9)	25 (47.2)	26 (49.1)	5 (55.6)	3 (37.5)	13 (39.4)	21 (56.8)	23 (44.2)	11 (61.1)	24 (42.9)	10 (71.4)	4 (80.0)	30 (46.2)
Neural invasion	0.679		0.367			0.622		0.022		0.000		0.669*	
Yes	8 (47.1)	28 (52.8)	25 (47.2)	5 (55.6)	6 (75.0)	18 (54.5)	18 (48.6)	18 (69.2)	18 (40.9)	36 (64.3)	0 (0.0)	2 (40.0)	34 (52.3)
No	9 (52.9)	25 (47.2)	28 (52.8)	4 (44.4)	2 (25.0)	15 (45.5)	19 (51.4)	8 (30.8)	26 (59.1)	20 (35.7)	14 (100.0)	3 (60.0)	31 (47.7)

<i>Margin involvement</i>	1.000*		0.638*		0.366		0.246		0.494*		1.000*		
<i>Free</i>	13 (76.5)	40 (76.9)	40 (76.9)	6 (66.7)	7 (87.5)	23 (71.9)	30 (81.1)	18 (69.2)	35 (81.4)	41 (74.5)	12 (85.7)	4 (80.0)	49 (76.6)
<i>involved</i>	4 (23.5)	12 (23.1)	12 (23.1)	3 (33.3)	1 (12.5)	9 (28.1)	7 (18.9)	8 (30.8)	8 (18.6)	14 (25.5)	2 (14.3)	1 (20.0)	15 (23.4)
<i>Extracellular mucin</i>	0.732*		0.172*		0.151		0.266		0.272*		0.575*		
<i>Yes</i>	4 (23.5)	10 (18.9)	9 (17.0)	4 (44.4)	1 (12.5)	9 (27.3)	5 (13.5)	7 (26.9)	7 (15.9)	13 (23.2)	1 (7.1)	0 (0.0)	14 (21.5)
<i>No</i>	13 (76.5)	43 (81.1)	44 (83.0)	5 (55.6)	7 (87.5)	24 (72.7)	32 (86.5)	19 (73.1)	37 (84.1)	43 (76.8)	13 (92.9)	5 (100.0)	51 (78.5)
<i>Intracellular mucin</i>	1.000*		0.098*		0.411*		0.664*		1.000*		0.370*		
<i>Yes</i>	1 (5.9)	5 (9.4)	3 (5.7)	1 (11.1)	2 (25.0)	4 (12.1)	2 (5.4)	3 (11.5)	3 (6.8)	5 (8.9)	1 (7.1)	1 (20.0)	5 (7.7)
<i>No</i>	16 (94.1)	48 (90.6)	50 (94.3)	8 (88.9)	6 (75.0)	29 (87.9)	35 (94.6)	23 (88.5)	41 (93.2)	51 (91.1)	13 (92.9)	4 (80.0)	60 (92.3)
<i>T stage</i>	1.000*		0.727*		0.090*		0.734*		1.000*		0.594*		
<i>T1/T2</i>	2 (11.8)	8 (15.1)	9 (17.0)	1 (11.1)	0 (0.0)	2 (6.1)	8 (21.6)	3 (11.5)	7 (15.9)	8 (14.3)	2 (14.3)	1 (20.0)	9 (13.8)
<i>T3/T4</i>	15 (88.2)	45 (84.9)	44 (83.0)	8 (88.9)	8 (100.0)	31 (93.9)	29 (78.4)	23 (88.5)	37 (84.5)	48 (85.7)	12 (85.7)	4 (80.0)	56 (86.2)
<i>Lymph node</i>	0.806		0.430*		0.348		0.181		0.202*		0.332*		
<i>Involved</i>	11 (64.7)	36 (67.9)	18 (34.0)	4 (44.4)	1 (12.5)	24 (72.7)	23 (62.2)	20 (76.9)	27 (61.4)	40 (71.4)	7 (50.0)	2 (40.0)	45 (69.2)
<i>Free</i>	6 (35.3)	17 (32.1)	35 (66.0)	5 (55.6)	7 (87.5)	9 (27.3)	14 (37.8)	6 (23.1)	17 (38.6)	16 (28.6)	7 (50.0)	3 (60.0)	20 (30.8)
<i>TNM stage</i>	0.666		0.515*		0.050		0.152		0.006		0.171*		
<i>I+II</i>	7 (41.2)	25 (47.2)	26 (49.1)	4 (44.4)	2 (25.0)	11 (33.3)	21 (56.8)	9 (34.6)	23 (52.3)	21 (37.5)	11 (78.6)	4 (80.0)	28 (43.1)
<i>III</i>	10 (58.8)	28 (52.8)	27 (50.9)	5 (55.6)	6 (75.6)	22 (66.7)	16 (43.2)	17 (65.4)	21 (47.7)	35 (62.5)	3 (21.4)	1 (20.0)	37 (56.9)
<i>Grade</i>	0.432*		1.000*		0.315*		0.483*		1.000*		1.000*		
<i>I/II</i>	16 (94.1)	44 (83.0)	45 (84.9)	8 (88.9)	7 (87.5)	30 (90.9)	30 (81.1)	21 (80.8)	39 (88.6)	48 (85.7)	12 (85.7)	5 (100.0)	55 (84.6)
<i>III</i>	1 (5.9)	9 (17.0)	8 (15.1)	1 (11.1)	1 (12.5)	3 (9.1)	7 (18.9)	5 (19.2)	5 (11.4)	8 (14.3)	2 (14.3)	0 (0.0)	10 (15.4)

<i>Cancer death</i>	0.750		0.033*		0.067		0.988		0.110		0.069*		
<i>Yes</i>	11 (64.7)	32 (60.4)	31 (58.5)	4 (44.4)	8 (100.0)	24 (72.7)	19 (51.4)	16 (61.5)	27 (61.4)	37 (66.1)	6 (42.9)	1 (20.0)	42 (64.6)
<i>No</i>	6 (35.3)	21 (39.6)	22 (41.5)	5 (55.6)	0 (0.0)	9 (27.3)	18 (48.6)	10 (38.5)	17 (38.6)	19 (33.9)	8 (57.1)	4 (80.0)	23 (35.4)

LVI: Lymphovascular invasion, PD-1: programmed death-1, PD-L1: programmed death-ligand 1, TC: Tumor cells, TICs: Tumor-infiltrating cells, MMR: mismatch repair. Values with $p < 0.05$ are represented in bold, * The results of fisher exact test