

**Supplementary Table S4.** Comparison of clinicopathological parameters between Smad4-/PTEN+ or Smad4+/PTEN- group and Smad4-/PTEN- group

Parameter	No. (n=419)	Smad4-/PTEN+ or Smad4+/PTEN- (n=254) (%)	Smad4-/PTEN- (n=165)	p-value (chi-square test)
Age (yr)				.889
<65	281	171 (67.3)	110 (66.7)	
≥65	138	83 (32.7)	55 (33.3)	
Sex				.921
Female	179	109 (42.9)	70 (42.4)	
Male	240	145 (57.1)	95 (57.6)	
Tumor location				.593 <sup>a</sup>
Right	81	45 (17.7)	36 (21.8)	
Transverse and left	43	30 (11.8)	13 (7.9)	
Rectosigmoid	295	179 (70.5)	116 (70.3)	
Tumor size (cm)				.436
≤4.5	133	77 (30.3)	56 (33.9)	
>4.5	286	177 (69.7)	109 (66.1)	
Growth pattern				.273
Fungating	95	53 (20.9)	42 (25.5)	
Ulcerating	324	201 (79.1)	123 (74.5)	
Histologic grade				.736 <sup>a</sup>
1	20	10 (3.9)	10 (6.1)	
2	312	195 (76.8)	117 (70.9)	
3	87	49 (19.3)	38 (23)	
AJCC stage				.735 <sup>a</sup>
Tis	11	7 (2.8)	7 (2.8)	
I	22	14 (5.5)	14 (5.5)	
II	145	88 (34.6)	88 (34.6)	
III	241	145 (57.1)	145 (57.1)	
T category				.601 <sup>a</sup>
Tis	11	7 (2.8)	4 (2.4)	
1	4	2 (0.8)	2 (1.2)	
2	25	15 (5.9)	10 (6.1)	
3	369	227 (89.4)	142 (86.1)	
4	10	3 (1.2)	7 (4.2)	
N category				.506 <sup>a</sup>
0	178	109 (42.9)	69 (41.8)	
1	103	66 (26.0)	37 (22.4)	
2	138	79 (31.1)	59 (35.8)	
Lymphovascular invasion				.138
Absence	170	101 (39.8)	69 (41.8)	
Presence	249	153 (60.2)	96 (58.2)	
Mismatch repair protein				.03*
Defective	196	108 (42.5)	88 (53.3)	
Intact	223	146 (57.5)	77 (46.7)	

AJCC, 8th edition of American Joint Committee on Cancer.

\*p < .05.

<sup>a</sup>Linear by linear association.