

Supplementary Table 1 Comparison between the training set and the testing set, *n* (%)

Variables	Total (<i>n</i> = 349)	Training set (<i>n</i> = 244)	Testing set (<i>n</i> = 105)	Statistic	<i>P</i> value
Age, Mean ± SD	61.12 ± 10.66	61.19 ± 10.80	60.95 ± 10.38	<i>t</i> =-0.19	0.85
Sex	-	-	-	$\chi^2=1.45$	0.229
Female	160 (45.85)	117 (47.95)	43 (40.95)	-	-
Male	189 (54.15)	127 (52.05)	62 (59.05)	-	-
Smoking	-	-	-	$\chi^2=0.38$	0.54
No	244 (69.91)	173 (70.90)	71 (67.62)	-	-
Yes	105 (30.09)	71 (29.10)	34 (32.38)	-	-
Alcoholism	-	-	-	$\chi^2=0.69$	0.405
No	250 (71.63)	178 (72.95)	72 (68.57)	-	-
Yes	99 (28.37)	66 (27.05)	33 (31.43)	-	-
Family history	-	-	-	$\chi^2=0.02$	0.884
No	330 (94.56)	231 (94.67)	99 (94.29)	-	-
Yes	19 (5.44)	13 (5.33)	6 (5.71)	-	-
Diabetes	-	-	-	$\chi^2=0.05$	0.824
No	280 (80.23)	195 (79.92)	85 (80.95)	-	-
Yes	69 (19.77)	49 (20.08)	20 (19.05)	-	-
Hypertension	-	-	-	$\chi^2=0.03$	0.866
No	225 (64.47)	158 (64.75)	67 (63.81)	-	-
Yes	124 (35.53)	86 (35.25)	38 (36.19)	-	-
Year of surgery	-	-	-	$\chi^2=4.31$	0.366
2019	57 (16.33)	36 (14.75)	21 (20.00)	-	-
2020	67 (19.20)	45 (18.44)	22 (20.95)	-	-
2021	71 (20.34)	55 (22.54)	16 (15.24)	-	-
2022	78 (22.35)	52 (21.31)	26 (24.76)	-	-
2023	76 (21.78)	56 (22.95)	20 (19.05)	-	-
Chemotherapy	-	-	-	$\chi^2=0.58$	0.448

No	177 (50.72)	127 (52.05)	50 (47.62)	-	-
Yes	172 (49.28)	117 (47.95)	55 (52.38)	-	-
Radiation	-	-	-	$\chi^2=0.01$	0.939
No	285 (81.66)	199 (81.56)	86 (81.90)	-	-
Yes	64 (18.34)	45 (18.44)	19 (18.10)	-	-
Chinese medicine	-	-	-	$\chi^2=0.00$	0.951
No	162 (46.42)	113 (46.31)	49 (46.67)	-	-
Yes	187 (53.58)	131 (53.69)	56 (53.33)	-	-
Location	-	-	-	$\chi^2=2.16$	0.34
Both	15 (4.30)	12 (4.92)	3 (2.86)	-	-
Distal colon	234 (67.05)	158 (64.75)	76 (72.38)	-	-
Proximal colon	100 (28.65)	74 (30.33)	26 (24.76)	-	-
Size, Mean $\pm$ SD	2.76 $\pm$ 1.75	2.68 $\pm$ 1.77	2.94 $\pm$ 1.70	$t=1.30$	0.193
ACJJ T	-	-	-	$\chi^2=0.77$	0.679
T1	17 (4.87)	13 (5.33)	4 (3.81)	-	-
T2	42 (12.03)	31 (12.70)	11 (10.48)	-	-
T3	290 (83.09)	200 (81.97)	90 (85.71)	-	-
ACJJ N	-	-	-	$\chi^2=4.10$	0.129
N0	155 (44.41)	112 (45.90)	43 (40.95)	-	-
N1	140 (40.11)	90 (36.89)	50 (47.62)	-	-
N2	54 (15.47)	42 (17.21)	12 (11.43)	-	-
Grade	-	-	-	$\chi^2=2.09$	0.148
II	276 (79.08)	198 (81.15)	78 (74.29)	-	-
III	73 (20.92)	46 (18.85)	27 (25.71)	-	-
WBC, mean $\pm$ SD	10.14 $\pm$ 3.78	10.16 $\pm$ 3.77	10.08 $\pm$ 3.82	$t=-0.19$	0.848
RBC, mean $\pm$ SD	3.43 $\pm$ 0.70	3.46 $\pm$ 0.71	3.34 $\pm$ 0.66	$t=-1.52$	0.13
HGB, mean $\pm$ SD	103.28 $\pm$ 19.74	103.84 $\pm$ 19.28	101.98 $\pm$ 20.82	$t=-0.81$	0.42
PLT, mean $\pm$ SD	274.21 $\pm$ 117.44	269.70 $\pm$ 115.91	284.70 $\pm$ 120.84	$t=1.10$	0.274
NLR, mean $\pm$ SD	3.24 $\pm$ 1.07	3.22 $\pm$ 1.08	3.31 $\pm$ 1.05	$t=0.76$	0.448

PLR, mean $\pm$ SD	121.45 $\pm$ 46.21	120.76 $\pm$ 48.15	123.08 $\pm$ 41.52	t=0.43	0.668
CEA	-	-	-	$\chi^2=2.57$	0.109
Negative	231 (66.19)	168 (68.85)	63 (60.00)	-	-
Positive	118 (33.81)	76 (31.15)	42 (40.00)	-	-
Fatigue	-	-	-	$\chi^2=0.62$	0.431
No	205 (58.74)	140 (57.38)	65 (61.90)	-	-
Yes	144 (41.26)	104 (42.62)	40 (38.10)	-	-
Appetite loss	-	-	-	$\chi^2=0.85$	0.357
No	235 (67.34)	168 (68.85)	67 (63.81)	-	-
Yes	114 (32.66)	76 (31.15)	38 (36.19)	-	-

t: t-test, χ^2 : Chi-square test, SD: standard deviation, AJCC T: American Joint Committee on Cancer Tumor, ACJJ N: American Joint Committee on Cancer Lymph Node, WBC: White Blood Cell, RBC: Red Blood Cell, HGB: Hemoglobin, PLT: Platelet, NLR: Neutrophil-to-Lymphocyte Ratio, PLR: Platelet-to-Lymphocyte Ratio, CEA: Carcinoembryonic Antigen.