

Supplement

Table.S1 Clinicopathological characteristics of colorectal cancer patients

Groups	Data
Average Age[range](years)	61.92[24-88]
Age(years)	
≤62	80
>62	88
Gender	
Male	94
Female	74
Family History	
Negative	145
Positive	23
Smoke	
Negative	127
Positive	41
Alcohol	
Bare	141
Mild	19
Severe	8
Primary Organ	
Colon	54

Rectum	114
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Growth Pattern

Nests Growth	81
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Infiltrating Growth	87
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Differentiation

Poor	26
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Moderate	96
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High	46
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Pathological pattern

Adenocarcinoma	141
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Mucinous adenocarcinoma	27
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Serosa Infiltration(T)

Negative	59
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Positive	109
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Lymph Node(N)

Negative	100
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Positive	68
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Metastasis(M)

Negative	164
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Positive	4
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TNM Stage

Stage I	28
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Stage II	67
Stage III	69
Stage IV	4
Adhesion	
Negative	141
Positive	27

Table.S2 Correlation of RDW-CV and RDW-SD with Clinicopathological characteristics of colorectal cancer patients.

Characteristics	RDW-CV				RDW-SD			
	Normal	High	<i>P</i> †‡	Adjusted OR(95%CI) §	Normal	High	<i>P</i> †‡	Adjusted OR(95%CI) §
Age(years)								
≤61	65	15	0.017 †	1.000	61	19	0.054†	1.000
>61	57	31	0.030 ‡	2.276 (1.083-4.783)	55	33	0.112‡	1.751 (0.878-3.493)
Gender								
Male	74	20	0.046 †	1.000	66	28	0.713†	1.000
Female	48	26	0.074‡	0.526 (0.260-1.065)	50	24	0.973‡	0.988 (0.504-1.939)
Smoke								
Negative	86	41	0.012 †	1.000	89	38	0.611†	1.000
Positive	36	5	0.090‡	0.395 (0.135-1.157)	27	14	0.296‡	1.576 (0.671-3.701)
Alcohol								
Bare	97	44	0.037 †	1.000	97	44	0.837†	1.000

Mild	18	1	0.488‡	0.457 (0.050-4.169)	14	5	0.386‡	2.018 (0.413-9.864)
Severe	7	1	0.490‡	2.810 (0.150-52.741)	5	3	0.438‡	2.043 (0.336-12.436)
Family History								
Negative	104	41	0.514†	1.000	97	48	0.130†	1.000
Positive	18	5	0.877‡	1.092 (0.356-3.351)	19	4	0.270‡	0.518 (0.161-1.668)
Primary Organ								
Colon	32	22	0.008†	1.000	34	20	0.240†	1.000
Rectum	90	24	0.027‡	0.439 (0.211-0.910)	82	32	0.293‡	0.684 (0.337-1.389)
Growth Pattern								
Nests Growth	62	19	0.271†	1.000	60	21	0.174†	1.000
Infiltrating Growth	60	27	0.213‡	1.569 (0.772-3.188)	56	31	0.164‡	1.615 (0.822-3.170)
Differentiation								
Poor	15	11	0.101†	1.000	18	8	0.959†	1.000
Moderate	75	21	0.345‡	0.605 (0.213-1.717)	67	29	0.707‡	1.225 (0.424-3.538)
High	32	14	0.254‡	1.610 (0.711-3.645)	31	15	0.678‡	1.177 (0.545-2.541)

Pathological pattern								
Adenocarcinoma	110	31	0.000 †	1.000	102	39	0.035 †	1.000
Mucinous adenocarcinoma	12	15	0.001 ‡	4.853 (1.953-12.057)	14	13	0.029 ‡	2.655 (1.107-6.365)
Serosa Infiltration(T)								
Negative	50	9	0.010 †	1.000	43	16	0.429†	1.000
Positive	72	37	0.005 ‡	3.345 (1.426-7.845)	73	36	0.507‡	1.277 (0.621-2.625)
Lymph Node(N)								
Negative	79	21	0.024 †	1.000	73	27	0.179†	1.000
Positive	43	25	0.019 ‡	2.402 (1.157-4.986)	43	25	0.237‡	1.510 (0.763-2.987)
Metastasis(M)								
Negative	119	45	0.914†	1.000	113	51	0.794†	1.000
Positive	3	1	0.756‡	0.688 (0.065-7.284)	3	1	0.663‡	0.599 (0.060-6.011)
TNM Stage								
Stage I	22	6	0.200 †	1.000	18	10	0.248†	1.000
Stage II	53	14	0.943‡	1.096 (0.088-13.697)	52	15	0.524‡	0.455 (0.040-5.129)

Stage III	44	25	0.995‡	1.008 (0.090-11.353)	43	26	0.969‡	0.954 (0.090-10.071)
Stage IV	3	1	0.488‡	0.427 (0.039-4.716)	3	1	0.507‡	0.453 (0.044-4.689)
Stage I+ II	75	20	0.036 †	1.000	70	25	0.138†	1.000
Stage III+ IV	47	26	0.025 ‡	2.308 (1.109-4.801)	46	27	0.182‡	1.592 (0.804-3.154)
Adhesion								
Negative	107	34	0.030 †	1.000	99	42	0.455†	1.000
Positive	15	12	0.013 ‡	3.143 (1.272-7.762)	17	10	0.351‡	1.523 (0.630-3.682)

†*P values were calculated from 2-sided chi-square tests.*

‡*P values were calculated by unconditional logistic regression adjusted for age, sex and family history.*

§*OR and 95%CI values were calculated by unconditional logistic regression adjusted for age, sex and family history*

Table.S3 The AUC area and *P* value of DFS/OS at 3 years and 5 years by different indicators

Groups	Discovery phase samples								Replication phase samples							
	3 years DFS		5 years DFS		3 years OS		5 years OS		3 years DFS		5 years DFS		3 years OS		5 years OS	
	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †	AUC	<i>P</i> †
Gender	0.529	0.607	0.563	0.196	0.581	0.272	0.598	0.060	0.555	0.594	0.527	0.761	0.560	0.617	0.536	0.710
Differentiation	0.554	0.338	0.574	0.128	0.598	0.185	0.610	0.064	0.486	0.891	0.508	0.925	0.594	0.432	0.580	0.409
Pathological pattern	0.494	0.919	0.539	0.417	0.476	0.746	0.523	0.662	0.536	0.728	0.616	0.186	0.501	0.999	0.571	0.464

†*P* values were calculated from ROC curve.