

Table SI. Clinicopathological characteristics.

Patient ID	Sex	Age, years	Location	TNM stage	Lymph node metastasis	Distal metastasis	Colonic polyp history
42	M	72	Rectum	I	No	No	Yes
9	M	66	Rectum	II	No	No	No
85	M	69	Rectum	II	No	Liver	Yes
10	M	67	Rectum	IV	2a	No	No
32	M	14	Rectum	III	No	No	No
106	M	73	Rectum	III	No	No	No
51	M	78	Sigmoid	III	No	No	No
30	M	85	Rectum	IV	No	No	No
45	M	79	Rectum	IV	No	No	Yes
81	M	71	Ascending	IV	No	No	No
65	M	87	Rectum	IV	No	No	No
75	M	67	Rectum	IV	No	No	No
104	M	63	Rectum	IV	No	No	Yes
1	M	59	Ascending	IVa	No	No	No
56	M	77	Sigmoid	IV	No	No	Yes
63	M	57	Rectum	III	1b	No	Yes
53	M	72	Rectum	III	1	No	No
115	M	54	Cecum	III	2a	Lung	Yes
15	M	70	Rectum	IV	1a	No	No
41	M	55	Ascending	IV	1b	-	-
100	M	75	Ascending	IV	1a	No	No
105	M	41	Ascending	IV	1b	No	No
48	M	66	Rectum	IV	1	No	No
84	M	82	Rectum	IV	1b	No	Yes
91	M	78	Rectum	IV	1a	Liver	Yes
98	M	71	Rectum	IV	1a	No	No
49	M	60	Descending	IV	1	No	No
2	M	45	Sigmoid	IVa	1	No	No
46	M	68	Rectum	IV	2a	No	No
68	M	79	Rectum	IV	2a	No	No
101	M	71	Sigmoid	IV	2b	No	No
31	M	45	Transverse	IV	2b	-	-
96	M	72	Transverse	IV	2a	No	No
54	M	60	Colon	IV	2b	No	No
94	M	57	Rectum	I	No	No	No
26	M	59	Rectum	II	No	No	Yes
38	M	56	Rectum	II	No	-	-
88	M	63	Rectum	II	No	No	Yes
24	M	71	Rectum	III	No	No	Yes
5	M	61	Ascending	III	No	No	Yes
109	M	65	Ascending	III	No	No	Yes
40	M	63	Colon	III	No	-	-
36	M	71	Ascending	III	No	No	No
44	M	71	Ascending	III	No	-	-
18	M	65	Transverse	III	No	No	No
111	M	61	Rectum	III	No	No	No
50	M	66	Ascending	III	No	No	No
12	M	72	Rectum	III	No	No	Yes
6	M	67	Rectum	IV	No	No	No
25	M	70	Rectum	IV	No	No	Yes
79	M	68	Rectum	IV	No	Lung	Yes
86	M	71	Rectum	IV	No	No	No
11	M	61	Sigmoid	IV	No	No	Yes
52	M	63	Ascending	IV	No	No	Yes
69	M	76	Ascending	IV	No	No	No
80	M	65	Ascending	IV	No	No	Yes
110	M	61	Ascending	IV	No	No	No
8	M	64	Rectum	IVa	No	No	No

Table SI. Continued.

Patient ID	Sex	Age, years	Location	TNM stage	Lymph node metastasis	Distal metastasis	Colonic polyp history
55	M	60	Rectum	IV	No	Liver	No
20	M	57	Rectum	II	1	No	No
22	M	58	Rectum	II	1	No	No
23	M	66	Rectum	III	No	No	Yes
3	M	68	Rectum	III	2a	-	-
87	M	63	Rectum	III	2a	No	Yes
82	M	51	Ascending	III	No	No	No
74	M	65	Descending	III	1a	No	Yes
13	M	62	Rectum	IV	1a	No	Yes
19	M	79	Rectum	IV	1a	No	Yes
21	M	74	Rectum	IV	1c	No	Yes
92	M	77	Rectum	IV	1a	Liver	No
97	M	59	Rectum	IV	1a	-	-
116	M	69	Rectum	IV	1b	No	Yes
73	M	59	Sigmoid	IV	1a	No	Yes
71	M	62	Ascending	IV	1a	No	No
95	M	75	Transverse	IV	1c	No	No
62	M	60	Rectum	IV	2b	Liver	No
113	M	42	Rectum	IV	2a	No	No
72	M	62	Rectum	IV	1a	No	No
7	F	48	Rectum	I	No	No	No
103	F	58	Rectum	III	No	No	No
99	F	57	Ascending	III	No	No	Yes
89	F	67	Transverse	IV	No	No	No
102	F	76	Rectum	IV	No	No	No
17	F	73	Colon	IV	No	No	No
114	F	66	Rectum	IV	1b	No	Yes
83	F	69	Ascending	IV	1a	No	No
37	F	67	Transverse	IV	1	-	-
78	F	64	Transverse	IV	1b	Abdomen	No
43	F	48	Rectum	III	2b	No	No
67	F	42	Rectum	IV	2b	No	No
77	F	46	Rectum	IV	2b	No	No
112	F	48	Rectum	IV	2b	No	No
90	F	63	Rectum	I	No	No	No
14	F	59	Sigmoid	I	No	No	Yes
61	F	49	Rectum	II	No	No	No
64	F	37	Rectum	II	No	No	No
117	F	74	Rectum	III	No	No	No
33	F	61	Cecum	III	No	No	Yes
70	F	64	Transverse	III	No	No	No
35	F	58	Rectum	IV	No	No	Yes
76	F	56	Rectum	IV	No	No	No
39	F	57	Sigmoid	IV	No	-	-
66	F	57	Ascending	IV	No	No	No
93	F	69	Ascending	IV	No	-	-
107	F	50	Ascending	IV	No	No	No
16	F	73	Colon	IV	No	Liver	Yes
29	F	54	Rectum	IV	No	No	No
108	F	72	Ascending	IV	No	No	No
57	F	57	Ascending	IV	No	No	Yes
34	F	45	Rectum	III	1	-	-
58	F	87	Sigmoid	IV	1a	No	No
27	F	73	Ascending	IV	1	-	-
47	F	71	Ascending	IV	1	No	No
60	F	76	Transverse	IV	1b	No	No
4	F	68	Ascending	IVa	1	No	Yes
59	F	42	Sigmoid	IV	2a	No	No

Table SI. Continued.

Patient ID	Sex	Age, years	Location	TNM stage	Lymph node metastasis	Distal metastasis	Colonic polyp history
28	F	66	Colon	-	-	-	-

M, male; F, female; TNM, Tumor-Node-Metastasis staging system.



Table SII. Continued.

Patient ID	APC mt	BRAF mt	CDKN2A mt	EGFR mt	FBXW7 mt	IDH1 mt	KIT mt	KRAS mt	MET mt	MLH1 mt	PIK3CA mt	PTEN mt	SMAD4 mt	STK11 mt	TP53 mt
24			1				1						1	1	1
5	1							1							
109															1
40	1			1				1	1			1			1
36								1			1				1
44	1							1							1
18														1	
111	1				1			1							
50	1							1							
12			1					1							
6			1					1							
25		1					1				1				1
79	1			1			1				1			1	1
86	1		1			1	1	1	1		1			1	1
11	1		1		1		1	1					1	1	1
52	1		1					1	1				1		1
69	1		1				1	1	1				1		1
80		1		1			1								1
110	1							1		1					
8	1									1					
55	1						1		1						1
20						1	1								
22	1							1							
23															
3															
87	1				1			1	1			1	1	1	1
82				1					1		1			1	1
74	1				1		1	1		1	1			1	1
13	1						1	1		1	1	1			1
19						1		1							1
21	1													1	1
92	1						1				1	1		1	1
97	1				1			1						1	1
116					1										1
73				1							1				1
71								1			1				1
95															1
62	1				1				1					1	1



Table SII. Continued.

Patient ID	APC	BRAF	CDKN2A	EGFR	FBXW7	IDH1	KIT	KRAS	MET	MLH1	PIK3CA	PTEN	SMAD4	STK11	TP53	
	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	mt	
4	1		1					1								mt
59			1					1								1
28			1											1		1