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Supplementary Table 1. Details of mismatch repair gene mutation carriers with a diagnosis of metachronous colon cancer and their surveillance colonoscopy status after proctectomy for index rectal cancer

			vital status		Diagnos	sis of rectal	cancer	Diagnosis of metachronous colon cancer					colonoscopy	
person id	gene mutated	sex	(age at death in years)	age (yr)	surgery	tumor stage	grade/ differentiation	site	age (yr)	surgery	tumor stage	grade/ differentiation	yes/no	frequency
1	MSH2	male	alive	49	APR	T2N0M9	moderate	transverse colon	57	unknown	T2N0M9	moderate	yes	every 2 years
3	MSH2	male	dead (64)	39	APR	T2N0M9	poor	hepatic flexure	53	right hemicolectomy	T1N0M9	poor	yes	every year
2	MSH2	female	dead (54)	34	AR	T1N0M9	moderate	caecum	51	right hemicolectomy	T1N0M9	moderate	yes	every year
4	MSH2	female	dead (66)	62	AR	T1N0M9	moderate	transverse colon	64	total colectomy	T2N0M9	moderate	no	every year
5	MSH2	male	alive	30	AR	T3N0M9	mucinous	caecum	46	total proctocolectomy	T1N0M9	moderate	yes	every year
6	MLH1	male	alive	41	AR	T3N1M9	poor	transverse colon	44	total colectomy	T1N0M9	moderate to well	yes	every year
7	MSH2	male	alive	40	AR	T3N2M9	moderate	sigmoid colon	52	total colectomy	T2N0M9	moderate	yes	every year
8	MSH2	male	dead (84)	55	AR	T3N0M9	well	hepatic flexure	70	unknown	T9N9M9	unknown	yes	every 2 years
9	MSH2	female	dead (69)	48	APR	T3N2M9	poor	caecum	60	total colectomy	T1N0M9	moderate	yes	every year
10	MSH2	female	alive	37	AR	T2N0M9	moderate	colon	46	unknown	T9N9M9	unknown	yes	every year
11	MSH2	female	alive	24	AR	T9N9M9	unknown	descending colon	35	left hemicolectomy	T3N1M9	mucinous	yes	every year
12	MSH2	female	alive	17	AR	T2N0M9	mucinous	caecum	43	right hemicolectomy	T3N0M9	poor	yes	every year
13	MSH2	female	dead (73)	62	APR	T3N0M9	moderate	transverse colon	70	right hemicolectomy	T2N0M9	moderate	yes	unknown
14	MSH2	female	alive	44	AR	T3N0M9	moderate	ascending colon	50	right hemicolectomy	T1N0M9	poor	yes	every year
15	MSH2	male	alive	36	APR	T1N9M9	moderate	colon	56	total colectomy	T9N9M9	unknown	yes	every year
16	MLH1	male	alive	35	AR	T2N1M9	moderate	ascending colon	41	total colectomy	T1N0M9	moderate	yes	every year
17	MSH2	female	alive	51	AR	T2N0M9	poor	sigmoid colon	76	total colectomy	T3N0M9	poor	yes	unknown
18	MLH1	female	alive	29	AR	T3N1M9	well	ascending colon	38	total proctocolectomy	T1N0M9	moderate	yes	every year
19	MLH1	male	dead (62)	35	APR	T3N0M9	moderate	caecum	44	right hemicolectomy	T3N0M9	moderate	unknown	-
20	MLH1	male	alive	39	APR	T2N0M9	moderate	ascending colon	66	right hemicolectomy	T2N0M0	moderate	yes	unknown
21	MSH2	female	alive	44	APR	T3N0M9	poor	ascending colon	58	right hemicolectomy	T3N0M1	poor	yes	unknown

AR=anterior resection; APR= abdominoperineal resection resection