

Supplementary Table 1 Performance of fecal immunological test for advanced neoplasm according to patients' characteristics

Characteristics	Sensitivity (95% CI)	P value	Specificity (95% CI)	P value	PPV (95% CI)	P value	NPV (95% CI)	P value	Accuracy (95% CI)	P value
Age, years										
40-49	19.1 (9.8-28.5)	<0.001	61.7 (59.4-64.0)	<0.001	2.0 (0.9-3.1)	<0.001	94.9 (93.6-96.2)	<0.001	60.0 (60.0-60.1)	<0.001
50-59	49.0 (44.4-53.6)		43.8 (42.6-45.1)		6.1 (5.3-6.8)		92.1 (91.1-93.0)		44.2 (44.2-44.2)	
60-69	61.8 (59.1-64.5)		43.4 (42.5-44.3)		10.7 (10-11.5)		91.1 (90.4-91.9)		45.2 (45.2-45.2)	
70-74	62.2 (58.3-66.2)		43.0 (41.5-44.6)		13.9 (12.6-15.2)		88.5 (87.1-89.9)		45.5 (45.5-45.5)	
Sex										
Male	58.4 (55.9-61.0)	0.761	44.0 (43.1-45.0)	0.032	12.5 (11.7-13.3)	<0.001	88.6 (87.7-89.4)	<0.001	45.8 (45.8-45.8)	0.426
Female	57.7 (54.4-61.0)		45.4 (44.6-46.3)		7.1 (6.5-7.7)		93.7 (93.1-94.4)		46.3 (46.3-46.3)	

Smoking status

Never smoker	55.4 (53.0-57.9)	<0.001	46.7 (46.0-47.4)	<0.001	8.6 (8.1-9.2)	<0.001	92.0 (91.5-92.6)	<0.001	47.4 (47.4-47.4)	<0.001
Former smoker	62.9 (54.6-71.1)		37.2 (34.1-40.2)		12.0 (9.6-14.4)		88.0 (84.9-91.2)		40.3 (40.2-40.3)	
Current smoker	64.5 (60.6-68.4)		38.4 (36.9-39.9)		13.0 (11.8-14.2)		88.3 (86.8-89.8)		41.7 (41.6-41.7)	

Alcohol consumption

Never drinker	55.8 (53.6-58.0)	<0.001	45.7 (45.0-46.4)	<0.001	8.9 (8.4-9.4)	<0.001	91.6 (91.1-92.1)	<0.001	46.6 (46.6-46.6)	<0.001
Ever drinker	70.3 (65.7-75.0)		36.2 (34.3-38.2)		15.5 (13.8-17.2)		88.0 (86.0-90.1)		41.1 (41.1-41.1)	

Physical activity

Irregular exercise	56.2 (53.4-59.0)	0.049	44.7 (43.9-45.6)	0.903	8.7 (8.1-9.3)	<0.001	91.6 (90.9-92.3)	0.259	45.7 (45.7-45.7)	0.296
Regular exercise	60.3 (57.4-63.2)		44.8 (43.9-45.8)		10.9 (10.2-11.7)		90.9 (90.1-91.8)		46.4 (46.4-46.4)	

BMI, kg/m ²										
< 25	53.4 (50.7-56.2)	<0.001	47.3 (46.4-48.1)	<0.001	9.0 (8.3-9.6)	0.005	91.3 (90.6-91.9)	0.713	47.8 (47.8-47.8)	<0.001
25-29.9	62.5 (59.3-65.6)		42.2 (41.2-43.3)		10.5 (9.7-11.3)		91.2 (90.3-92.1)		44.2 (44.2-44.2)	
≥ 30	71.1 (64.0-78.1)		37.3 (34.8-39.7)		11.0 (9.1-12.9)		92.2 (90.1-94.4)		40.6 (40.5-40.6)	
Hemorrhoid										
No	76.2 (72.4-79.9)	<0.001	33.4 (32.1-34.7)	<0.001	9.7 (8.8-10.7)	0.950	93.7 (92.6-94.8)	<0.001	37.1 (37.1-37.1)	<0.001
Yes	53.2 (50.9-55.5)		48.3 (47.5-49.0)		9.7 (9.1-10.3)		90.8 (90.2-91.4)		48.7 (48.7-48.7)	
Diverticulum										
No	75.4 (64.6-86.2)	0.008	35.7 (31.5-39.9)	<0.001	12.6 (9.2-16.0)	0.071	92.2 (88.4-96.0)	0.755	40.0 (40.0-40.1)	0.004
Yes	57.7 (55.6-59.7)		45.0 (44.3-45.6)		9.6 (9.1-10.1)		91.3 (90.8-91.8)		46.2 (46.2-46.2)	

FIT: Fecal immunological test; PPV: Positive predictive value; NPV: Negative predictive value; 95%CI: 95% confidence interval;

BMI: Body mass index; CRC: Colorectal cancer.