

Supplementary Table S1. Test results for each FIT brand separately for 3-sample FITs requested in primary care in symptomatic patients stratified for ages and related to diagnoses of CRC.

Actim Fecal Blood: Test results for 3-sample FITs requested in primary care in symptomatic patients, stratified for ages and related to diagnoses of CRC.

	Age ≥18 years n=4232	Age ≥40 years n=3337	Age ≥50 years n=2843	Age ≥60 years n=2287	Age ≥70 years n=1479	Age ≥80 years n=586
Colorectal cancer n	79	78	74	65	50	24
True positive	77	76	72	64	49	24
False negative	2	2	2	1	1	0
False positive	1230	1050	944	807	557	254
True negative	2923	2209	1825	1415	872	308
Sensitivity %	97.5	97.4	97.3	98.5	98.0	100
Specificity %	70.4	67.8	65.9	63.7	61.0	54.8
PPV (95% CI)	5.9 (4.6-7.2)	6.7 (5.3-8.2)	7.1 (5.5-8.7)	7.3 (5.6-9.1)	8.1 (5.9-10.3)	8.6 (5.3-11.9)
NPV (95% CI)	99.9 (99.8-100)	99.9 (99.8-100)	99.9 (99.7-100)	99.9 (99.8-100)	99.9 (99.7-100)	100 (98.8-100)
LR+	3.29	3.02	2.85	2.71	2.51	2.21
LR-	0.04	0.04	0.04	0.02	0.03	0

Analyz FOB: Test results for 3-sample FITs requested in primary care in symptomatic patients, stratified for ages and related to diagnoses of CRC.

	Age ≥18 years n=7889	Age ≥40 years n=6641	Age ≥50 years n=5748	Age ≥60 years n=4681	Age ≥70 years n=3048	Age ≥80 years n=1162
Colorectal cancer n	158	156	149	138	99	34
True positive	140	139	133	122	85	29
False negative	18	17	16	16	14	5
False positive	2090	1835	1650	1398	980	389
True negative	5641	4650	3949	3145	1969	739
Sensitivity %	88.6	89.1	89.3	88.4	85.9	85.3
Specificity %	73.0	71.7	70.5	69.2	66.8	65.5
PPV (95% CI)	6.3 (5.3-7.3)	7.0 (5.9-8.2)	7.5 (6.2-8.7)	8.0 (6.7-9.4)	8.0 (6.4-9.6)	6.9 (4.5-9.4)
NPV (95% CI)	99.7 (99.5-99.8)	99.6 (99.5-99.8)	99.6 (99.4-99.8)	99.5 (99.2-99.7)	99.3 (98.9-99.7)	99.3 (98.7-99.9)
LR+	3.28	3.15	3.03	2.87	2.58	2.47
LR-	0.16	0.15	0.15	0.17	0.21	0.22

Chemtrue FOB Test: Test results for 3-sample FITs requested in primary care in symptomatic patients, stratified for ages and related to diagnoses of CRC.

	Age ≥18 years n=1756	Age ≥40 years n=1503	Age ≥50 years n=1345	Age ≥60 years n=1140	Age ≥70 years n=745	Age ≥80 years n=268
Colorectal cancer n	29	29	29	26	19	6
True positive	29	29	29	26	19	6
False negative	0	0	0	0	0	0
False positive	593	523	483	431	302	132
True negative	1134	951	833	683	424	130
Sensitivity %	100	100	100	100	100	100
Specificity %	65.7	64.5	63.3	61.3	58.4	49.6
PPV (95% CI)	4.7 (3.0-6.3)	5.3 (3.4-7.1)	5.7 (3.7-7.7)	5.7 (3.6-7.8)	5.9 (3.3-8.5)	4.3 (0.9-7.8)
NPV (95% CI)	100 (99.7-100)	100 (99.6-100)	100 (99.6-100)	100 (99.5-100)	100 (99.1-100)	100 (97.2-100)
LR+	2.92	2.82	2.72	2.58	2.40	1.98
LR-	0	0	0	0	0	0

Diaquick FOB: Test results for 3-sample FITs requested in primary care in symptomatic patients, stratified for ages and related to diagnoses of CRC.

	Age ≥18 years n=1751	Age ≥40 years n=1524	Age ≥50 years n=1339	Age ≥60 years n=1085	Age ≥70 years n=720	Age ≥80 years n=302
Colorectal cancer n	38	38	38	34	28	14
True positive	31	31	31	28	23	11
False negative	7	7	7	6	5	3
False positive	352	315	294	244	169	82
True negative	1361	1171	1007	807	523	206
Sensitivity %	81.6	81.6	81.6	82.4	82.1	78.6
Specificity %	79.5	78.8	77.4	76.8	75.6	71.5
PPV (95% CI)	8.1 (5.4-10.8)	9.0 (6.0-12.0)	9.5 (6.3-12.7)	10.3 (6.7-13.9)	12.0 (7.4-16.6)	11.8 (5.3-18.4)
NPV (95% CI)	99.5 (99.1-99.9)	99.4 (99.0-99.8)	99.3 (98.8-99.8)	99.3 (98.7-99.9)	99.1 (98.2-99.9)	98.6 (97.0-100)
LR+	3.98	3.85	3.61	3.55	3.36	2.76
LR-	0.23	0.23	0.24	0.23	0.24	0.30

CI: confidence interval. CRC: colorectal cancer. FIT: faecal immunochemical test as described in the Material and Methods section. LR+: positive likelihood ratio. LR-: negative likelihood ratio. NPV: negative predictive value. PPV: positive predictive value.

Supplementary Table S2. FIT brand Actim Fecal Blood: Test results for combinations of 3-sample FITs, haemoglobin values and platelet counts in symptomatic patients in primary care related to diagnoses of CRC.

	FIT (Actim Fecal Blood) and haemoglobin value (n=3866)				FIT (Actim Fecal Blood), haemoglobin value and platelet count (n=1956)				
	FIT positive	Anaemia	Anaemia and FIT positive	Anaemia and/or FIT positive	FIT positive	Thromb	Thromb and FIT positive	Thromb and/or FIT positive	Thromb and/or anaemia and/or FIT positive
Colorectal cancer n	75	75	75	75	42	42	42	42	42
True positive	73	39	39	73	42	6	6	42	42
False negative	2	36	36	2	0	36	36	0	0
False positive	1146	1074	454	1766	670	151	73	748	1122
True negative	2645	2717	3337	2025	1244	1763	1841	1166	792
Sensitivity %	97.3	52.0	52.0	97.3	100	14.3	14.3	100	100
Specificity %	69.8	71.7	88.0	53.4	65.0	92.1	96.2	60.9	41.4
PPV (95% CI)	6.0 (4.7-7.3)	3.5 (2.4-4.6)	7.9 (5.5-10.3)	4.0 (3.1-4.9)	5.9 (4.2-7.6)	3.8 (0.8-6.8)	7.6 (1.8-13.4)	5.3 (3.8-6.9)	3.6 (2.5-4.7)
NPV (95% CI)	99.9 (99.8-100)	98.7 (98.3-99.1)	98.9 (98.6-99.3)	99.9 (99.8-100)	100 (99.7-100)	98.0 (97.4-98.6)	98.1 (97.5-98.7)	100 (99.7-100)	100 (99.5-100)
LR+	3.22	1.84	4.33	2.09	2.86	1.81	3.76	3.32	1.71
LR-	0.04	0.67	0.55	0.05	N/A	1.07	0.89	N/A	N/A

CI: confidence interval. CRC: colorectal cancer. FIT: faecal immunochemical test, as described in the Material and Methods section. LR+: positive likelihood ratio. LR-: negative likelihood ratio. N/A: not applicable. NPV: negative predictive value. PPV: positive predictive value. Thromb: thrombocytosis.

Anaemia: haemoglobin value <117 g/l in women, <134 g/l in men. Thrombocytosis: >390x10⁹/l in women and >350x10⁹/l in men.

Supplementary Table S3. FIT brand Analyz FOB: Test results for combinations of 3-sample FITs, haemoglobin values and platelet counts in symptomatic patients in primary care related to diagnoses of CRC.

	FIT (Analyze FOB) and haemoglobin value (n=6783)				FIT (Analyze FOB), haemoglobin value and platelet count (n=6124)				
	FIT positive	Anaemia	Anaemia and FIT positive	Anaemia and/or FIT positive	FIT positive	Thromb	Thromb and FIT positive	Thromb and/or FIT positive	Thromb and/or anaemia and/or FIT positive
Colorectal cancer n	149	149	149	149	133	133	133	133	133
True positive	131	63	57	137	115	24	23	116	122
False negative	18	86	92	12	18	109	110	17	11
False positive	1842	1782	609	3015	1680	473	191	1962	2910
True negative	4792	4852	6025	3619	4311	5518	5800	4029	3081
Sensitivity %	87.9	42.3	38.3	91.9	86.5	18.0	17.3	87.2	91.7
Specificity %	72.2	73.1	90.8	54.6	72.0	92.1	96.8	67.3	51.4
PPV (95% CI)	6.6 (5.5-7.7)	3.4 (2.6-4.2)	8.6 (6.4-10.7)	4.3 (3.6-5.1)	6.4 (5.3-7.5)	4.8 (2.9-6.7)	10.7 (6.6-14.9)	5.6 (4.6-6.6)	4.0 (3.3-4.7)
NPV (95% CI)	99.6 (99.5-99.8)	98.3 (97.9-98.6)	98.5 (98.2-98.8)	99.7 (99.5-99.9)	99.6 (99.4-99.8)	98.1 (97.7-98.4)	98.1 (97.8-98.5)	99.6 (99.4-99.8)	99.6 (99.4-99.9)
LR+	3.16	1.57	4.16	2.02	3.09	2.28	5.41	2.38	1.89
LR-	0.17	0.79	0.68	0.15	0.19	0.89	0.85	0.19	0.16

CI: confidence interval. CRC: colorectal cancer. FIT: faecal immunochemical test, as described in the Material and Methods section. LR+: positive likelihood ratio. LR-: negative likelihood ratio. NPV: negative predictive value. PPV: positive predictive value. Thromb: thrombocytosis.

Anaemia: haemoglobin value <117 g/l in women, <134 g/l in men. Thrombocytosis: >387x10⁹/l in women and >348x10⁹/l in men.

Supplementary Table S4. FIT brand Chemtrue FOB Test: Test results for combinations of 3-sample FITs, haemoglobin values and platelet counts in symptomatic patients in primary care related to diagnoses of CRC.

	FIT (Chemtrue FOB Test) and haemoglobin value (n=1550)				FIT (Chemtrue FOB Test), haemoglobin value and platelet count (n=1445)				
	FIT positive	Anaemia	Anaemia and FIT positive	Anaemia and/or FIT positive	FIT positive	Thromb	Thromb and FIT positive	Thromb and/or FIT positive	Thromb and/or anaemia and/or FIT positive
Colorectal cancer n	29	29	29	29	29	29	29	29	29
True positive	29	16	16	29	29	6	6	29	29
False negative	0	13	13	0	0	23	23	0	0
False positive	529	379	164	744	484	154	63	575	742
True negative	992	1142	1357	777	932	1262	1353	841	674
Sensitivity %	100	55.2	55.2	100	100	20.7	20.7	100	100
Specificity %	65.2	75.1	89.2	51.1	65.8	89.1	95.6	59.4	47.6
PPV (95% CI)	5.2 (3.5-7.4)	4.1 (2.1-6.0)	8.9 (4.7-13.0)	3.8 (2.4-5.1)	5.7 (3.7-7.7)	3.8 (0.8-6.7)	8.7 (2.0-15.3)	4.8 (3.1-6.5)	3.8 (2.4-5.1)
NPV (95% CI)	100 (99.6-100)	98.9 (98.3-99.5)	99.1 (98.5-99.6)	100 (99.5-100)	100 (99.6-100)	98.2 (97.5-98.9)	98.3 (97.7-99.0)	100 (99.6-100)	100 (99.5-100)
LR+	2.88	2.21	5.12	2.04	2.93	1.90	4.65	2.46	1.91
LR-	0	0.60	0.50	0	0	0.89	0.83	0	0

CI: confidence interval. CRC: colorectal cancer. FIT: faecal immunochemical test, as described in the Material and Methods section. LR+: positive likelihood ratio. LR-: negative likelihood ratio. NPV: negative predictive value. PPV: positive predictive value. Thromb: thrombocytosis.

Anaemia: haemoglobin value <117 g/l in women, <134 g/l in men. Thrombocytosis: >387x10⁹/l in women and >348x10⁹/l in men.

Supplementary Table S5. FIT brand Diaquick FOB: Test results for combinations of 3-sample FITs, haemoglobin values and platelet counts in symptomatic patients in primary care related to diagnoses of CRC.

	FIT (Diaquick FOB) and haemoglobin value (n=1528)				FIT (Diaquick FOB), haemoglobin value and platelet count (n=1326)				
	FIT positive	Anaemia	Anaemia and FIT positive	Anaemia and/or FIT positive	FIT positive	Thromb	Thromb and FIT positive	Thromb and/or FIT positive	Thromb and/or anaemia and/or FIT positive
Colorectal cancer n	36	36	36	36	33	33	33	33	33
True positive	29	14	11	32	26	4	4	26	29
False negative	7	22	25	4	7	29	29	7	4
False positive	313	420	122	611	277	92	25	344	575
True negative	1179	1072	1370	881	1016	1201	1268	949	718
Sensitivity %	80.6	38.9	30.6	88.9	78.8	12.1	12.1	78.8	87.9
Specificity %	79.0	71.8	91.8	59.0	78.6	92.9	98.1	73.4	55.5
PPV (95% CI)	8.5 (5.8-12.0)	3.2 (1.8-5.4)	8.3 (4.2-14.3)	5.0 (3.4-7.0)	8.6 (5.7-12.3)	4.2 (1.1-10.3)	13.8 (3.9-31.7)	7.0 (4.6-10.1)	4.8 (3.2-6.8)
NPV (95% CI)	99.4 (98.8-99.8)	98.0 (97.0-98.7)	98.2 (97.4-98.8)	99.5 (98.8-99.9)	99.3 (98.6-99.7)	97.6 (96.6-98.4)	97.8 (96.8-98.5)	99.3 (98.5-99.7)	99.4 (98.6-99.8)
LR+	3.84	1.38	3.74	2.20	3.68	1.70	6.27	2.96	1.98
LR-	0.25	0.85	0.76	0.17	0.27	0.95	0.90	0.29	0.22

CI: confidence interval. CRC: colorectal cancer. FIT: faecal immunochemical test, as described in the Material and Methods section. LR+: positive likelihood ratio. LR-: negative likelihood ratio. NPV: negative predictive value. PPV: positive predictive value. Thromb: thrombocytosis.

Anaemia: haemoglobin value <117 g/l in women, <134 g/l in men. Thrombocytosis: >387x10⁹/l in women and >348x10⁹/l in men.