



University of Dundee

Once-only colonoscopy or two rounds of faecal immunochemical testing 2 years apart for colorectal cancer screening (SCREESCO)

Forsberg, Anna; Westerberg, Marcus; Metcalfe, Chris; Steele, Robert; Blom, Johannes; Engstrand, Lars

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Table 1. Yield colonoscopy vs two FIT two years apart on the level intention-to-screen (randomization)

Colorectal lesion	Colonoscopy (N=31,140*)		FIT (N=60,300**)		RR***	95% CI	p-value
	Subjects no.	Risk %	Subjects no.	Risk %			
Cancer							
right	12	0.04	23	0.04	1.01	(0.50-2.03)	0.98
left	25	0.08	60	0.10	0.81	(0.51-1.29)	0.37
rectum	13	0.04	38	0.06	0.66	(0.35-1.24)	0.20
total	49	0.16	121	0.20	0.78	(0.56-1.09)	0.15
Advanced adenoma							
right	262	0.84	280	0.46	1.81	(1.53-2.14)	<0.0001
left	288	0.92	558	0.93	1.00	(0.87-1.15)	1.00
rectum	150	0.48	248	0.41	1.17	(0.96-1.43)	0.13
total	637	2.05	968	1.61	1.27	(1.15-1.41)	<0.0001
Non-advanced Adenoma							
right	1058	3.40	666	1.10	3.08	(2.79-3.39)	<0.0001
left	836	2.68	687	1.14	2.36	(2.13-2.60)	<0.0001
rectum	300	0.96	237	0.39	2.45	(2.07-2.91)	<0.0001
total	1916	6.15	1317	2.18	2.82	(2.63-3.02)	<0.0001
≥3 Adenomas							
total	443	1.42	614	1.02	1.40	(1.24-1.58)	<0.0001
Sessile serrated polyp ≥10mm							
right	217	0.7	155	0.26	2.71	(2.21-3.33)	<0.0001
left	44	0.14	42	0.07	2.03	(1.33-3.10)	0.001
rectum	4	0.01	11	0.02	0.70	(0.22-2.21)	0.55
total	261	0.84	202	0.33	2.50	(2.08-3.01)	<0.0001

The risk was given as the number of subjects with one finding in in a given segment (right, left or rectum) in the numerator and the number of subjects randomized to the screening in the denominator. For each subject, only the worst finding is counted. Subject may have findings at multiple lesions so the number of segmental findings can be larger than the total number of findings of each type.

*N men = 15,566; N women = 15,574.

**N men = 30,150; N women = 30,150.

***Relative risks (colonoscopy vs FIT) were adjusted for sex.

Table 2. Yield colonoscopy vs two FIT two years apart on the per-protocol level

Colorectal lesion	Colonoscopy (N=10,679*)		FIT (N=33,383**)		RR***	95% CI	p-value
	Subjects no.	Risk %	Subjects no.	Risk %			
Cancer							
right	12	0.11	23	0.07	1.63	(0.81-3.28)	0.17
left	25	0.23	60	0.18	1.28	(0.80-2.04)	0.30
rectum	13	0.12	38	0.11	1.04	(0.55-1.96)	0.90
total	49	0.46	121	0.36	1.25	(0.89-1.74)	0.19
Advanced adenoma							
right	262	2.45	280	0.84	2.84	(2.40-3.36)	<0.0001
left	288	2.70	558	1.67	1.57	(1.37-1.81)	<0.0001
rectum	150	1.40	248	0.74	1.84	(1.50-2.25)	<0.0001
total	637	5.96	968	2.90	2.01	(1.82-2.21)	<0.0001
Non-advanced Adenoma							
right	1058	9.91	666	2.00	4.83	(4.40-5.31)	<0.0001
left	836	7.83	687	2.06	3.71	(3.36-4.09)	<0.0001
rectum	300	2.81	237	0.71	3.86	(3.26-4.57)	<0.0001
total	1916	17.94	1317	3.95	4.44	(4.15-4.74)	<0.0001
≥3 Adenomas							
total	443	4.15	614	1.84	2.16	(1.92-2.44)	<0.0001
Sessile Serrated Polyp ≥10mm							
right	217	2.03	155	0.46	4.47	(3.64-5.49)	<0.0001
left	44	0.41	42	0.13	3.26	(2.14-4.98)	<0.0001
rectum	4	0.04	11	0.03	1.09	(0.35-3.44)	0.88
total	261	2.44	202	0.61	4.10	(3.42-4.92)	<0.0001

The risk was given as the number of subjects with one finding in a given segment (right, left or rectum) in the numerator and the number of subjects participating in screening in the denominator. For each subject, only the worst finding is counted. Subject may have findings at multiple lesions so the number of segmental findings can be larger than the total number of findings of each type.

*N men = 5,507, N women = 5,172

**N men = 15,519, N women = 17,864

***Relative risks (colonoscopy vs FIT) were adjusted for sex.

Table 3. Stages (according to UICC) of colorectal cancers detected in SCREESCO

Arm	Number of colorectal cancers (%)					Total (row)
	Stage I	Stage II	Stage III	Stage IV	Missing	
FIT	68 (56%)	21 (17%)	29 (24%)	3 (2%)	0 (0%)	121
Colonoscopy	25 (51%)	11 (22%)	10 (20%)	2 (4%)	1 (2%)	49
Total (column)	93 (55%)	32 (19%)	39 (23%)	5 (3%)	1 (1%)	170

Analysis for association between stage of colorectal adenocarcinoma and detection by colonoscopy or FIT (missing data not included):

Fisher's exact test $p=0.72$