

Report Supplementary Material 5

Table 2. Uptake, test positivity, and diagnostic yield of the FIT overall and at rounds 1, 2, and 3, by age at invite

Age at invite (years)	Findings	Round									Cumulative (across all rounds)		End-of-study colonic examination			Entire study findings			
		1			2			3			n	% of all rounds	n	% of end-of-study colonic exam	% of entire study findings	n	% of entire study findings		
		n	% of round	% of entire study findings	n	% of round	% of entire study findings	n	% of round	% of entire study findings									
≤ 65	Invited	3950			2681			2567			3950								
	Completed FIT <sup>a</sup>	2880	72.9		2604	97.1		2489	97.0		2880	72.9							
	Tested positive	147 <sup>b</sup>	5.1 <sup>c</sup>		107	4.1 <sup>c</sup>		98	3.9 <sup>c</sup>		352 <sup>d</sup>	12.2 <sup>c</sup>							
	Invited for colonic examination	-	-		-	-		-	-		-	-		-	-		-	-	
	Colonic examination performed	138	93.9 <sup>e</sup>	5.5 <sup>f</sup>	101	94.4 <sup>c</sup>	4.0 <sup>f</sup>	90	91.8 <sup>c</sup>	3.6 <sup>f</sup>	329	93.5 <sup>e</sup>	13.0 <sup>f</sup>	2203	-	87.0 <sup>f</sup>	2532		
	Colonoscopy	137	99.3 <sup>g</sup>	5.5 <sup>f</sup>	98	97.0 <sup>g</sup>	3.9 <sup>f</sup>	89	98.9 <sup>g</sup>	3.6 <sup>f</sup>	324	98.5 <sup>g</sup>	13.0 <sup>f</sup>	2162	98.1 <sup>g</sup>	87.0 <sup>f</sup>	2486	98.2 <sup>g</sup>	
	CTC (no colonoscopy)	1	0.7 <sup>g</sup>	2.2 <sup>f</sup>	3	3.0 <sup>g</sup>	6.5 <sup>f</sup>	1	1.1 <sup>g</sup>	2.2 <sup>f</sup>	5	1.5 <sup>g</sup>	10.9 <sup>f</sup>	41	1.9 <sup>g</sup>	89.1 <sup>f</sup>	46	1.8 <sup>g</sup>	
	<i>Diagnostic yield</i>																		
	ACN <sup>h</sup>	36	26.1 <sup>i</sup>	17.1 <sup>f</sup>	17	16.8 <sup>i</sup>	8.1 <sup>f</sup>	17	18.9 <sup>i</sup>	8.1 <sup>f</sup>	70	21.3 <sup>i</sup>	33.2 <sup>f</sup>	141	6.4 <sup>i</sup>	66.8 <sup>f</sup>	211	8.3 <sup>i</sup>	
	CRC	2	1.4 <sup>i</sup>	16.7 <sup>f</sup>	3	3.0 <sup>i</sup>	25.0 <sup>f</sup>	2	2.2 <sup>i</sup>	16.7 <sup>f</sup>	7	2.1 <sup>i</sup>	58.3 <sup>f</sup>	5	0.2 <sup>i</sup>	41.7 <sup>f</sup>	12	0.5 <sup>i</sup>	
AAs	36	26.1 <sup>i</sup>	17.8 <sup>f</sup>	14	13.9 <sup>i</sup>	6.9 <sup>f</sup>	15	16.7 <sup>i</sup>	7.4 <sup>f</sup>	65	19.8 <sup>i</sup>	32.2 <sup>f</sup>	137	6.2 <sup>i</sup>	67.8 <sup>f</sup>	202	8.0 <sup>i</sup>		
> 65	Invited	4058			2822			2653			4058								
	Completed FIT <sup>a</sup>	3066	75.6		2746	97.3		2569	96.8		3066	75.6							
	Tested positive	200 <sup>b</sup>	6.5 <sup>c</sup>		135	4.9 <sup>c</sup>		108	4.2 <sup>c</sup>		443 <sup>d</sup>	14.4 <sup>c</sup>							

<b>Invited for colonic examination</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>Colonic examination performed</b>	191	95.5 <sup>e</sup>	7.2 <sup>f</sup>	123	91.1 <sup>e</sup>	4.6 <sup>f</sup>	101	93.5 <sup>e</sup>	3.8 <sup>f</sup>	415	93.7 <sup>e</sup>	15.6 <sup>f</sup>	2252	-	84.4 <sup>f</sup>	2667	
<b>Colonoscopy</b>	184	96.3 <sup>g</sup>	7.0 <sup>f</sup>	122	99.2 <sup>g</sup>	4.7 <sup>f</sup>	96	95.0 <sup>g</sup>	3.7 <sup>f</sup>	402	96.9 <sup>g</sup>	15.4 <sup>f</sup>	2209	98.1 <sup>g</sup>	84.6 <sup>f</sup>	2611	97.9 <sup>g</sup>
<b>CTC (no colonoscopy)</b>	6	3.1 <sup>g</sup>	11.1 <sup>f</sup>	1	0.8 <sup>g</sup>	1.9 <sup>f</sup>	5	5.0 <sup>g</sup>	9.3 <sup>f</sup>	12	2.9 <sup>g</sup>	22.2 <sup>f</sup>	42	1.9 <sup>g</sup>	77.8 <sup>f</sup>	54	2.0 <sup>g</sup>
<b>FS (no colonoscopy or CTC)</b>	1	0.5 <sup>g</sup>	50.0 <sup>f</sup>	0	0 <sup>g</sup>	0 <sup>f</sup>	0	0 <sup>g</sup>	0 <sup>f</sup>	1	0.2 <sup>g</sup>	50.0 <sup>f</sup>	1	0.04 <sup>g</sup>	50.0 <sup>f</sup>	2	0.07 <sup>g</sup>
<i><b>Diagnostic yield</b></i>																	
<b>ACN<sup>h</sup></b>	47	24.6 <sup>i</sup>	18.7 <sup>f</sup>	26	21.1 <sup>i</sup>	10.3 <sup>f</sup>	22	21.8 <sup>i</sup>	8.7 <sup>f</sup>	95	22.9 <sup>i</sup>	37.8 <sup>f</sup>	157	7.0 <sup>i</sup>	62.3 <sup>f</sup>	252	9.4 <sup>i</sup>
<b>CRC</b>	6	3.1 <sup>i</sup>	42.9 <sup>f</sup>	5	4.1 <sup>i</sup>	35.7 <sup>f</sup>	0	0 <sup>i</sup>	0 <sup>f</sup>	11	2.7 <sup>i</sup>	78.6 <sup>f</sup>	3	0.1 <sup>i</sup>	21.4 <sup>f</sup>	14	0.5 <sup>i</sup>
<b>AAs</b>	42	22.0 <sup>i</sup>	17.4 <sup>f</sup>	23	18.7 <sup>i</sup>	9.5 <sup>f</sup>	22	21.8 <sup>i</sup>	9.1 <sup>f</sup>	87	21.0 <sup>i</sup>	36.1 <sup>f</sup>	154	6.8 <sup>i</sup>	63.9 <sup>f</sup>	241	9.2 <sup>i</sup>

**FIT, faecal immunochemical test; CTC, computed tomography colonography; FS, flexible sigmoidoscopy; ACN, advanced colorectal neoplasia; CRC, colorectal cancer; AA, advanced adenoma.**

- Completion of FIT test was defined as having provided consent, returned an analysable round 1 FIT kit, and not subsequently withdrawn from the study.
- Three participants were defined as 'FIT positive' in round 1 during the pilot phase based on a threshold of 20 µg/g with a reading that was < 40 µg/g (i.e. that did not meet the positivity threshold used in the rest of the study).
- Percentages calculated using the number of those who completed FIT as the denominator. Positivity was defined as ≥ 40µg Hb/g faeces for the majority of the study, with the exception of the pilot phase where a threshold of 20µg Hb/g faeces was used.
- Participants who tested positive at any round, regardless of whether they completed FIT at all rounds to which they were invited.
- Percentages calculated using the number of those who tested positive as the denominator.
- Percentages calculated using the row total from the entire study findings as the denominator.
- Percentages calculated using the number of those who had a colonic examination performed as the denominator.
- ACN was defined as CRC or AA. Six participants in the entire study had both CRC and AA.
- Diagnostic yield in participants who had a colonic examination performed.