

Supplemental material 1, Table 2

Mean differences between the study groups and the reference group

COS-CRC part I, scale (range of values)	Study group	After screening result (95% CI)	p-value*	Two months after final result (95% CI)	p-value*	Twelve months after final result (95% CI)	p-value*
1. Sense of dejection (0-18)	Not screened	0.13 (-0.16 – 0.43)	0.3857	0.28 (-0.06 – 0.63)	0.1078	N/A	N/A
	Negative	Reference		Reference		Reference	
	No abnormalities (NoA)	2.92 (2.38 – 3.47)	<0.0001	0.70 (0.28 – 1.12)	0.0010	0.57 (0.17 – 0.96)	0.0048
	LR polyps	2.89 (2.28 – 3.49)	<0.0001	0.71 (0.26 – 1.17)	0.0020	0.35 (-0.02 – 0.73)	0.0661
	M&HR polyps	2.75 (2.26 – 3.24)	<0.0001	1.08 (0.70 – 1.46)	<0.0001	0.56 (0.24 – 0.88)	0.0006
	CRC	2.45 (1.22 – 3.67)	<0.0001	2.28 (1.03 – 3.54)	0.0004	1.01 (0.11 – 1.92)	0.0285
2. Anxiety (0-21)	Not screened	0.19 (-0.11 – 0.49)	0.2178	0.27 (-0.10 – 0.63)	0.1521	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	3.19 (2.62 – 3.77)	<0.0001	0.78 (0.33 – 1.23)	0.0007	0.58 (0.19 – 0.97)	0.0037
	LR polyps	3.41 (2.73 – 4.08)	<0.0001	0.68 (0.23 – 1.14)	0.0034	0.36 (0.00 – 0.72)	0.0470
	M&HR polyps	3.34 (2.79 – 3.89)	<0.0001	1.21 (0.80 – 1.63)	<0.0001	0.86 (0.52 – 1.21)	<0.0001
	CRC	2.66 (1.24 – 4.08)	0.0002	2.08 (0.86 – 3.30)	0.0008	1.04 (0.21 – 1.86)	0.0139
3. Behaviour (0-21)	Not screened	0.57 (0.24 – 0.91)	0.0007	0.26 (-0.09 – 0.61)	0.1454	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	1.75 (1.23 – 2.26)	<0.0001	0.54 (0.08 – 0.99)	0.0220	0.48 (0.06 – 0.90)	0.0244
	LR polyps	1.60 (1.08 – 2.11)	<0.0001	0.27 (-0.18 – 0.72)	0.2457	0.20 (-0.19 – 0.58)	0.3265
	M&HR polyps	1.50 (1.03 – 1.97)	<0.0001	0.54 (0.15 – 0.93)	0.0064	0.36 (-0.01 – 0.73)	0.0595
	CRC	0.64 (-0.15 – 1.43)	0.1111	2.00 (0.91 – 3.10)	0.0003	1.04 (0.04 – 2.03)	0.0416
4. Sleep (0-12)	Not screened	0.41 (0.11 – 0.70)	0.0065	0.20 (-0.13 – 0.52)	0.2367	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	0.65 (0.28 – 1.02)	0.0006	0.16 (-0.20 – 0.52)	0.3794	0.42 (0.082 – 0.76)	0.0148
	LR polyps	0.83 (0.40 – 1.27)	0.0002	0.18 (-0.18 – 0.54)	0.3226	0.38 (0.007 – 0.75)	0.0459
	M&HR polyps	0.66 (0.29 – 1.03)	0.0004	0.46 (0.12 – 0.80)	0.0087	0.36 (0.053 – 0.67)	0.0218
	CRC	0.45 (-0.34 – 1.24)	0.2629	0.80 (-0.08 – 1.68)	0.0745	0.58 (-0.20 – 1.37)	0.1468
5. Introvert (0-15)	Not screened	0.18 (-0.08 – 0.43)	0.1771	0.18 (-0.11 – 0.46)	0.2244	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	1.74 (1.35 – 2.13)	<0.0001	0.41 (0.08 – 0.74)	0.0159	0.35 (0.04 – 0.65)	0.0256
	LR polyps	1.83 (1.37 – 2.30)	<0.0001	0.25 (-0.09 – 0.59)	0.1498	0.17 (-0.13 – 0.46)	0.2715
	M&HR polyps	1.72 (1.34 – 2.10)	<0.0001	0.57 (0.28 – 0.86)	0.0001	0.47 (0.18 – 0.76)	0.0016
	CRC	1.67 (0.72 – 2.63)	0.0006	1.27 (0.33 – 2.22)	0.0080	0.66 (-0.03 – 1.35)	0.0606
6. Change in body perception (0-9)	Not screened	0.27 (0.09 – 0.45)	0.0034	0.12 (-0.08 – 0.32)	0.2276	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	0.57 (0.32 – 0.79)	<0.0001	0.20 (-0.03 – 0.43)	0.1033	0.18 (-0.04 – 0.39)	0.1053
	LR polyps	0.63 (0.34 – 0.91)	<0.0001	0.06 (-0.18 – 0.31)	0.6103	0.07 (-0.14 – 0.29)	0.5093
	M&HR polyps	0.55 (0.32 – 0.79)	<0.0001	0.20 (0.00 – 0.40)	0.0504	0.10 (-0.07 – 0.28)	0.2532
	CRC	0.39 (-0.09 – 0.87)	0.1109	1.10 (0.47 – 1.73)	0.0006	0.44 (-0.04 – 0.93)	0.0749
7. Fear & powerlessness (0-12)	Not screened	0.20 (0.00 – 0.40)	0.0511	0.06 (-0.17 – 0.28)	0.6135	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	1.34 (1.00 – 1.68)	<0.0001	0.40 (0.10 – 0.70)	0.0092	0.21 (-0.03 – 0.44)	0.0812
	LR polyps	1.27 (0.88 – 1.66)	<0.0001	0.21 (-0.09 – 0.51)	0.1750	0.14 (-0.11 – 0.40)	0.2674
	M&HR polyps	1.19 (0.88 – 1.49)	<0.0001	0.34 (0.11 – 0.56)	0.0036	0.35 (0.13 – 0.56)	0.0016
	CRC	1.33 (0.61 – 2.05)	0.0003	1.21 (0.44 – 1.99)	0.0021	0.63 (0.10 – 1.17)	0.021
8. Change in perception of own age (0-6)	Not screened	0.09 (-0.05 – 0.22)	0.2090	0.07 (-0.08 – 0.22)	0.3407	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	0.29 (0.09 – 0.49)	0.0037	0.20 (0.01 – 0.38)	0.0376	0.15 (-0.01 – 0.32)	0.0636
	LR polyps	0.30 (0.08 – 0.52)	0.0073	0.12 (-0.07 – 0.30)	0.2198	0.14 (-0.04 – 0.33)	0.1229
	M&HR polyps	0.23 (0.05 – 0.41)	0.0106	0.22 (0.06 – 0.37)	0.0069	0.17 (0.02 – 0.32)	0.0300
	CRC	0.20 (-0.19 – 0.59)	0.3113	0.25 (-0.12 – 0.62)	0.1869	0.26 (-0.09 – 0.62)	0.1463
9. Emotional reactions (0-6)	Not screened	0.10 (0.00 – 0.21)	0.0578	0.05 (-0.06 – 0.16)	0.3825	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	0.13 (-0.01 – 0.27)	0.0740	0.02 (-0.10 – 0.14)	0.7703	0.09 (-0.03 – 0.20)	0.1543
	LR polyps	0.15 (0.00 – 0.30)	0.0565	0.07 (-0.08 – 0.22)	0.3642	0.01 (-0.10 – 0.12)	0.8496
	M&HR polyps	0.05 (-0.08 – 0.17)	0.4723	-0.02 (-0.13 – 0.09)	0.7104	0.05 (-0.06 – 0.15)	0.3940
	CRC	0.06 (-0.23 – 0.36)	0.6711	0.17 (-0.12 – 0.46)	0.2574	0.12 (-0.11 – 0.36)	0.3125
<b>COS-CRC part I, single items, (range of values)</b>							
10. Lifestyle changes (0-3)	Not screened	0.08 (0.02 – 0.15)	0.0134	0.04 (-0.03 – 0.11)	0.2929	N/A	N/A
	Negative	Reference		Reference		Reference	

	NoA	-0.02 (-0.09 – 0.05)	0.6208	-0.01 (-0.08 – 0.06)	0.6931	0.06 (-0.03 – 0.14)	0.1814
	LR polyps	0.06 (-0.03 – 0.14)	0.2132	0.11 (0.02 – 0.20)	0.0182	0.05 (-0.04 – 0.15)	0.2736
	M&HR polyps	0.04 (-0.04 – 0.16)	0.3558	0.08 (0.01 – 0.16)	0.0277	0.09 (0.01 – 0.18)	0.0292
	CRC	0.01 (-0.12 – 0.14)	0.8916	0.34 (0.10 – 0.57)	0.0046	0.17 (-0.05 – 0.38)	0.1233
11. Impact on sexuality (0-3)	Not screened	0.16 (0.06 – 0.26)	0.0013	0.12 (0.02 – 0.22)	0.0184	N/A	N/A
	Negative	Reference		Reference		Reference	
	NoA	0.11 (-0.01 – 0.23)	0.0841	0.04 (-0.07 – 0.14)	0.5340	0.14 (0.02 – 0.25)	0.0229
	LR polyps	0.13 (0.00 – 0.27)	0.0469	0.12 (0.00 – 0.24)	0.0592	0.14 (0.00 – 0.28)	0.0480
	M&HR polyps	0.09 (-0.02 – 0.20)	0.1157	0.16 (0.05 – 0.26)	0.0045	0.11 (0.00 – 0.22)	0.0505
	CRC	0.20 (-0.09 – 0.49)	0.1833	0.47 (0.15 – 0.79)	0.0036	0.29 (-0.05 – 0.63)	0.0944
<b>COS-CRC part Ix, scale (range of values)</b>							
12. Perceived burden of bowel preparation (0-18)	Not screened						
	Negative						
	NoA			Reference		Reference	
	LR polyps			-0.19 (-0.89 – 0.51)	0.5897	-0.12 (-0.77 – 0.52)	0.7055
	M&HR polyps			0.13 (-0.52 – 0.78)	0.6981	0.79 (0.19 – 1.39)	0.0095
	CRC			0.17 (-1.12 – 1.47)	0.7915	0.24 (-0.74 – 1.22)	0.6321
13. Negative physical colonoscopy experiences (0-9)	Not screened						
	Negative						
	NoA			Reference		Reference	
	LR polyps			-0.04 (-0.48 – 0.41)	0.8632	-0.46 (-0.86 – -0.07)	0.0214
	M&HR polyps			0.36 (-0.04 – 0.75)	0.0803	0.29 (-0.10 – 0.68)	0.1414
	CRC			0.32 (-0.47 – 1.11)	0.4242	-0.36 (-1.06 – 0.34)	0.3132
14. Negative emotional colonoscopy experiences (0-15)	Not screened						
	Negative						
	NoA			Reference		Reference	
	LR polyps			-0.05 (-0.63 – 0.52)	0.8535	-0.43 (-1.01 – 0.15)	0.1483
	M&HR polyps			0.43 (-0.15 – 1.00)	0.1456	0.13 (-0.44 – 0.69)	0.6640
	CRC			1.03 (-0.34 – 2.40)	0.1391	0.43 (-0.83 – 1.69)	0.5036
15. Knowledge of having colorectal polyps (0-6)	Not screened						
	Negative						
	NoA						
	LR polyps			-0.58 (-0.84 – -0.33)	<0.0001	-0.55 (-0.78 – -0.31)	<0.0001
	M&HR polyps			Reference		Reference	
	CRC						
<b>COS-CRC part Ix, single item (range of values)</b>							
16. Regret participation (0-3)	Not screened						
	Negative						
	NoA			Reference		Reference	
	LR polyps			0.03 (-0.04 – 0.09)	0.4349	0.02 (-0.06 – 0.09)	0.6887
	M&HR polyps			0.03 (-0.03 – 0.09)	0.2614	0.04 (-0.03 – 0.11)	0.2906
	CRC			0.06 (-0.08 – 0.21)	0.3811	-0.02 (-0.13 – 0.10)	0.7873
<b>COS-CRC part II, scale (range of values)</b>							
17. Social relations (0-6)	Not screened						
	Negative			Reference		Reference	
	NoA			0.06 (-0.04 – 0.17)	0.2263	0.14 (0.03 – 0.25)	0.0131
	LR polyps			-0.01 (-0.12 – 0.09)	0.8039	0.04 (-0.07 – 0.14)	0.4867
	M&HR polyps			0.06 (-0.03 – 0.16)	0.2061	0.07 (-0.02 – 0.17)	0.1415
	CRC			0.44 (0.11 – 0.78)	0.1718	0.34 (0.05 – 0.63)	0.0226
18. Relaxed/Calm (0-6)	Not screened						
	Negative			Reference		Reference	
	NoA			0.72 (0.52 – 0.92)	<0.0001	0.36 (0.18 – 0.53)	<0.0001
	LR polyps			0.64 (0.44 – 0.84)	<0.0001	0.34 (0.16 – 0.53)	0.0003
	M&HR polyps			0.64 (0.46 – 0.82)	<0.0001	0.45 (0.28 – 0.61)	<0.0001
	CRC			0.90 (0.46 – 0.82)	0.0004	0.65 (0.24 – 1.06)	0.0018
19. Existential values (0-10)	Not screened						
	Negative			Reference		Reference	
	NoA			0.59 (0.30 – 0.87)	<0.0001	0.42 (0.18 – 0.67)	0.0008
	LR polyps			0.42 (0.15 – 0.69)	0.002	0.44 (0.17 – 0.70)	0.0011
	M&HR polyps			0.54 (0.29 – 0.78)	<0.0001	0.48 (0.26 – 0.69)	<0.0001
	CRC			1.36 (0.66 – 2.05)	0.0001	1.44 (0.81 – 2.07)	<0.0001

20.Impulsivity (0-12)	Not screened						
	Negative			Reference		Reference	
	NoA			0.22 (0.00 – 0.44)	0.0494	0.18 (-0.03 – 0.40)	0.0933
	LR polyps			0.04 (-0.14 – 0.22)	0.6579	0.04 (-0.14 – 0.22)	0.6798
	M&HR polyps			0.18 (0.00 – 0.36)	0.0557	0.12 (-0.07 – 0.30)	0.2246
	CRC			1.49 (0.66 – 2.31)	<b>0.0004</b>	0.99 (0.32 – 1.66)	<b>0.0039</b>
21.Empathy (0-6)	Not screened						
	Negative			Reference		Reference	
	NoA			0.19 (0.04 – 0.33)	<b>0.0102</b>	0.24 (0.10 – 0.38)	<b>0.0010</b>
	LR polyps			0.17 (0.01 – 0.32)	0.0322	0.25 (0.09 – 0.41)	<b>0.0022</b>
	M&HR polyps			0.28 (0.14 – 0.42)	<b>&lt;0.0001</b>	0.16 (0.03 – 0.28)	<b>0.0141</b>
	CRC			0.51 (0.12 – 0.89)	<b>0.0094</b>	0.55 (0.22 – 0.88)	<b>0.0010</b>

\* The Benjamini-Hochberg procedure rejects all p-values above 0.023 to control the False Discovery Rate at 0.05.