

Online only supplementary material

Supplementary Table 1: Distribution of indications by case status and derivation method

	Algorithm-derived		Adjudicated	
	Cases	Controls	Cases	Controls
Colonoscopy				
No tests	661 (37.6)	2916 (80.2)	696 (39.6)	2934 (80.7)
Definite screening	25 (1.4)	141 (3.9)	22 (1.3)	129 (3.6)
Probable screening	14 (0.8)	20 (0.6)	12 (0.7)	17 (0.5)
Surveillance	40 (2.3)	119 (3.3)	37 (2.1)	125 (3.4)
Possible diagnostic	96 (5.5)	67 (1.8)	94 (5.3)	66 (1.8)
Definite diagnostic	917 (52.1)	361 (9.9)	893 (50.8)	356 (9.8)
Unknown	6 (0.4)	11 (0.3)	5 (0.3)	8 (0.2)
Sigmoidoscopy				
No tests	1044 (59.4)	2147 (59.1)	1060 (60.3)	2169 (59.7)
Definite screening	334 (19)	997 (27.4)	340 (19.3)	1008 (27.7)
Probable screening	37 (2.1)	106 (2.9)	38 (2.2)	93 (2.6)
Surveillance	4 (0.2)	13 (0.4)	3 (0.2)	19 (0.5)
Possible diagnostic	72 (4.1)	115 (3.2)	78 (4.4)	124 (3.4)
Definite diagnostic	259 (14.7)	235 (6.5)	232 (13.2)	204 (5.6)
Unknown	9 (0.6)	22 (0.6)	8 (0.5)	18 (0.5)