

S2 Additional results

A. GP Participant characteristics

	n	%
Gender		
Female	101	44.69
Male	125	55.31
Age range		
25-34 years	54	23.89
35-44 years	77	34.07
45-54 years	70	30.97
55-64 years	23	10.18
65 years or over	2	0.88
Years since qualifying		
0 to 2 years ago	28	12.39
2 to 5 years ago	45	19.91
5 to 10 years ago	40	17.70
10 to 20 years ago	55	24.34
20 or more years ago	58	25.66
Ethnicity		
White (British, Irish, Other)	132	58.41
South Asian (Indian, Bangladeshi, Pakistani or Asian mixed)	67	29.65
Black (African or Caribbean)	7	3.1
Other or missing (eg Chinese)	20	8.85
Region		
London	81	35.84
East of England	76	33.63
North West	29	12.83
West Midlands	22	9.73
Surrey and Sussex	9	3.98
Locum GP	6	2.65
Total	226	

B. Participant vs national general practice characteristics

Practice population and cancer referral characteristics				
	All median (IQR)	Nonparticipant practices median (IQR)	Participant practices median (IQR)	p
Age standardised cancer referral ratio	83 (37-156)	83 (36-155)	118.5 (55.25-192)	<0.001
Proportion of practice pop'n over 65y	15.4 (11.3-18.6)	15.4 (11.4-18.6)	13.1 (8.7-18.2)	0.005
n	8365	8145	220^(b)	

^(b)N is not 226 because 6 participants were locums so could not be assigned to a practice

GP characteristics	All GPs		Participants	
	n	%	n	%
Age				
25-34 years	4389	12.35	53	23.66
35-44 years	10920	30.74	78	34.82
45-54 years	12205	34.35	69	30.80
55-64 years + or unknown	8013	22.55	24	10.71
Gender				
Female	16,723	47.07	102	45.54
Male	18,804	52.93	124	55.36
Total	35,527		226	

C. Characteristics of GPs' simulated consultations and experience of the application

	Consultation 1	Consultations 2-6	All Consultations
Median duration [IQR]	13 [10-21] minutes	11 [8-14] minutes	
Mean number of information requests [SD]	46.1 [19.2]	47.7 [13.9]	47.4 [13.3]
Median % information requests resulting in error responses [Full range]	3.6% [0 - 52.9]	4.6% [4.0- 22.2]	4.8% [0 - 21.1]
n (consultations)	227	1121	1348

Note: the error rate for all consultations is higher than both consultations 2-6 and consultation 1 because in consultation 1 there were more cases where errors were low or zero but numbers of questions asked were also low than in later consultations.

D. Multilevel logistic regression of cancer investigation – adjusted for error rate experienced by GPs

	Adjusted odds ratio	CI (*= p<0.05)
Patient' characteristic		
Profile		
Profile 1 (PPV=0.8%)	0.30	
Profile 2 (PPV=1.1%)	0.82	[0.52; 1.3]
Profile 3 (PPV=1.7%)	1.00	
Profile 4 (PPV=2.5%)	0.20	[0.13; 0.31]*
Profile 5 (PPV=3-4%)	0.79	[0.49; 1.29]
Profile 6 (PPV~14%)	0.31	[0.2; 0.46]*
Ethnicity		
White	1.00	
South Asian	0.82	[0.62; 1.08]
Black	0.74	[0.57; 0.99]
Error rate^(d)		
>10%	0.77	[0.5; 1.18]
≤10% queries resulted in error	1.00	

^(d)% GP participant queries resulting in error message