

### Supplementary Digital Table 1 Adjusted Odds Ratios (Standard Errors) Describing the Effects of Patient-Level Predictor Variables on Dichotomised Core Item Scores

Predictor variable	PQ item (N)				
	Q4a* (26,764)	Q4b* (26,731)	Q4c* (26,689)	Q4d* (26,203)	Q4e* (25,666)
<b>Respondent</b>					
Yourself	1.00	1.00 -	1.00 -	1.00 -	1.00 -
Your child	0.93 (0.25)	1.32 (0.28)	1.25 (0.27)	1.25 (0.27)	1.35 (0.26)
Your spouse or partner	0.99 (0.37)	1.10 (0.34)	2.13 (0.83)	0.95 (0.25)	0.84 (0.20)
Another relative/friend	1.42 (0.60)	0.94 (0.26)	1.49 (0.50)	1.49 (0.47)	1.73 (0.53)
P value	.838	.601	.076	.416	.082
<b>Importance of visit</b>					
1 - Not very important	1.00	1.00	1.00	1.00	1.00
2	1.04 (0.37)	1.29 (0.39)	1.14 (0.32)	1.23 (0.37)	1.12 (0.32)
3	1.27 (0.37)	1.23 (0.30)	1.33 (0.31)	1.18 (0.29)	1.07 (0.25)
4	2.15 (0.63)	1.73 (0.41)	1.86 (0.43)	1.66 (0.40)	1.45 (0.33)
5 - Very important	2.41 (0.66)	2.09 (0.47)	2.35 (0.51)	1.98 (0.46)	1.71 (0.38)
P value	<.001	<.001	<.001	<.001	<.001
<b>Seeing usual doctor</b>					
No	1.00	1.00 -	1.00 -	1.00 -	1.00 -
Yes	1.69 (0.19)	1.43 (0.12)	1.55 (0.13)	1.59 (0.13)	1.62 (0.12)
P value	<.001	<.001	<.001	<.001	<.001
<b>Questionnaire posted</b>					
No	1.00	1.00 -	1.00 -	1.00 -	1.00 -
Yes	0.78 (0.09)	0.62 (0.06)	0.67 (0.06)	0.68 (0.06)	0.62 (0.05)
P value	.042	<.001	<.001	<.001	<.001
<b>Gender</b>					
Male	1.00	1.00 -	1.00 -	1.00 -	1.00 -
Female	0.96 (0.11)	1.00 (0.09)	1.00 (0.09)	1.07 (0.09)	0.96 (0.07)
P value	.697	.999	.959	.403	.633
<b>Age group</b>					
Under 15 years	1.00	1.00 -	1.00 -	1.00 -	1.00 -
15-20 years	1.11 (0.41)	0.99 (0.28)	1.18 (0.33)	0.97 (0.27)	1.02 (0.26)
21-40 years	1.05 (0.33)	0.99 (0.24)	1.18 (0.29)	1.07 (0.27)	1.02 (0.23)
41-60 years	1.23 (0.39)	1.50 (0.38)	1.47 (0.37)	1.22 (0.31)	1.37 (0.31)
Over 60 years	1.34 (0.43)	1.95 (0.50)	1.85 (0.47)	1.62 (0.41)	1.97 (0.45)
P value	.565	<.001	.001	.002	<.001
<b>Ethnic group</b>					
White	1.00 -	1.00 -	1.00 -	1.00 -	1.00 -
Mixed	0.38 (0.13)	0.50 (0.14)	0.48 (0.13)	0.61 (0.18)	0.79 (0.23)
Asian or Asian British	0.64 (0.18)	0.56 (0.12)	0.72 (0.17)	0.44 (0.08)	0.65 (0.13)
Black or Black British	0.62 (0.27)	0.62 (0.21)	0.61 (0.21)	0.64 (0.23)	0.73 (0.24)
Chinese or Other	0.54 (0.33)	0.51 (0.22)	0.48 (0.21)	1.02 (0.61)	0.72 (0.32)
P value	.035	.005	.020	.001	.211

Predictor variable	PQ item (N)			
	Q4f* (24,505)	Q4g* (23,606)	Q5a† (26,505)	Q5b† (26,435)
<b>Respondent</b>				
Yourself	1.00	1.00	1.00	1.00
Your child	1.04 (0.18)	1.06 (0.22)	0.85 (0.15)	0.88 (0.16)
Your spouse or partner	0.91 (0.20)	0.99 (0.27)	0.74 (0.16)	0.95 (0.26)
Another relative or friend	0.94 (0.21)	1.15 (0.31)	0.78 (0.17)	0.67 (0.15)
P value	.958	.952	.303	.363
<b>Importance of visit</b>				
1 - Not very important	1.00	1.00	1.00	1.00
2	1.11 (0.29)	1.01 (0.31)	1.99 (0.52)	3.59 (1.18)
3	1.16 (0.25)	1.05 (0.27)	1.73 (0.34)	1.89 (0.40)
4	1.62 (0.34)	1.47 (0.36)	2.29 (0.44)	2.48 (0.50)
5 - Very important	2.05 (0.41)	2.01 (0.48)	2.44 (0.44)	2.72 (0.52)
P value	<.001	<.001	<.001	<.001
<b>Seeing usual doctor</b>				
No	1.00	1.00	1.00	1.00
Yes	1.84 (0.13)	1.79 (0.15)	1.58 (0.11)	1.74 (0.14)
P value	<.001	<.001	<.001	<.001
<b>Questionnaire posted</b>				
No	1.00	1.00	1.00	1.00
Yes	0.63 (0.05)	0.58 (0.05)	0.83 (0.06)	0.95 (0.08)
P value	<.001	<.001	.012	.518
<b>Gender</b>				
Male	1.00	1.00	1.00	1.00
Female	1.14 (0.08)	1.10 (0.09)	1.10 (0.08)	0.95 (0.08)
P value	.066	.252	.176	.540
<b>Age group</b>				
Under 15 years	1.00	1.00	1.00	1.00
15-20 years	0.90 (0.22)	0.92 (0.27)	0.72 (0.18)	1.04 (0.28)
21-40 years	0.85 (0.18)	0.86 (0.22)	0.81 (0.17)	0.98 (0.22)
41-60 years	1.08 (0.23)	0.84 (0.21)	0.82 (0.17)	1.03 (0.23)
Over 60 years	1.29 (0.28)	1.16 (0.30)	1.06 (0.23)	1.49 (0.34)
P value	.001	.022	.010	.001
<b>Ethnic group</b>				
White	1.00	1.00	1.00	1.00
Mixed	0.66 (0.17)	0.79 (0.27)	0.71 (0.20)	0.85 (0.28)
Asian or Asian British	0.47 (0.08)	0.39 (0.07)	0.73 (0.14)	0.58 (0.11)
Black or Black British	0.39 (0.10)	0.47 (0.15)	0.48 (0.13)	0.46 (0.14)
Chinese or Other	0.53 (0.21)	0.37 (0.14)	0.47 (0.18)	0.65 (0.30)
P value	<.001	<.001	.015	.011

\* The clustering effect of 'doctor' was highly statistically significant ( $P < .001$ )

† The clustering effect of 'doctor' was  $P = .006$  for Q5a and  $P = .010$  for Q5b.

**Supplementary Digital Table 2**  
**Adjusted Odds Ratios (Standard Errors) Describing the Effects of Colleague-Level Predictor Variables on Dichotomised Core Item Scores**

Predictor variable	CQ item (N)*											
	Q1 <sup>†</sup> (14,834)	Q2 <sup>†</sup> (14,018)	Q3 <sup>†</sup> (14,367)	Q4 <sup>†</sup> (13,379)	Q5 <sup>†</sup> (11,954)	Q6 <sup>†</sup> (13,538)						
<b>CQ return method</b>												
Electronic	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Paper	0.96	(0.17)	0.82	(0.14)	0.92	(0.14)	0.76	(0.12)	0.84	(0.12)	0.83	(0.11)
<i>P</i> value	.828		.226		.580		.073		.237		.140	
<b>Gender</b>												
Male	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Female	1.05	(0.14)	1.15	(0.15)	1.23	(0.13)	1.31	(0.16)	1.20	(0.14)	0.92	(0.08)
<i>P</i> value	.722		.271		.055		.026		.122		.353	
<b>Age</b>												
16-29 years	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
30-39 years	0.91	(0.38)	0.78	(0.32)	0.98	(0.29)	0.67	(0.25)	0.96	(0.29)	0.92	(0.19)
40-49 years	0.63	(0.26)	0.49	(0.20)	0.76	(0.22)	0.59	(0.22)	0.92	(0.28)	1.10	(0.23)
50-59 years	0.60	(0.24)	0.43	(0.17)	0.83	(0.25)	0.47	(0.17)	0.89	(0.27)	1.09	(0.23)
Over 60 years	0.68	(0.30)	0.65	(0.29)	1.07	(0.36)	0.64	(0.26)	1.04	(0.35)	1.55	(0.39)
<i>P</i> value	.144		.002		.168		.049		.925		.062	
<b>Ethnic group</b>												
White	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Mixed	0.68	(0.25)	0.57	(0.19)	0.89	(0.30)	0.71	(0.24)	0.60	(0.18)	1.06	(0.29)
Asian or Asian British	0.66	(0.11)	0.64	(0.10)	0.81	(0.12)	0.65	(0.10)	0.70	(0.10)	1.19	(0.16)
Black or Black British	1.47	(0.81)	4.30	(3.23)	1.99	(0.92)	2.45	(1.36)	1.75	(0.84)	1.76	(0.66)
Chinese or Other	1.35	(0.65)	0.96	(0.38)	0.88	(0.29)	0.94	(0.34)	1.29	(0.52)	2.25	(0.84)
<i>P</i> value	.079		.003		.279		.016		.030		.063	

Predictor variable	CQ item (N)*											
	Q7 <sup>†</sup> (14114)		Q8 <sup>†</sup> (13668)		Q9 <sup>†</sup> (12254)		Q10 <sup>†</sup> (11456)		Q11 <sup>†</sup> (11809)		Q12 <sup>†</sup> (15530)	
<b>CQ return method</b>												
Electronic	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Paper	1.08	(0.15)	0.76	(0.12)	0.99	(0.14)	0.95	(0.15)	1.02	(0.13)	0.78	(0.14)
<i>P</i> value	.601		.093		.920		.734		.894		.172	
<b>Gender</b>												
Male	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Female	1.13	(0.12)	1.36	(0.17)	1.04	(0.10)	1.22	(0.13)	1.07	(0.10)	0.90	(0.13)
<i>P</i> value	.251		.013		.722		.064		.460		.467	
<b>Age</b>												
16-29 years	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
30-39 years	0.94	(0.25)	1.06	(0.36)	0.66	(0.19)	0.92	(0.24)	0.55	(0.15)	0.82	(0.32)
40-49 years	0.85	(0.23)	0.77	(0.26)	0.55	(0.16)	0.83	(0.22)	0.45	(0.12)	0.65	(0.25)
50-59 years	0.82	(0.22)	0.79	(0.27)	0.54	(0.15)	0.79	(0.21)	0.42	(0.11)	0.63	(0.24)
Over 60 years	0.82	(0.25)	1.08	(0.41)	0.68	(0.22)	1.25	(0.40)	0.59	(0.18)	0.88	(0.39)
<i>P</i> value	.860		.159		.079		.190		.001		.322	
<b>Ethnic group</b>												
White	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Mixed	0.78	(0.23)	1.10	(0.45)	1.00	(0.31)	0.56	(0.16)	0.64	(0.16)	0.79	(0.34)
Asian or Asian British	0.73	(0.11)	0.66	(0.10)	0.82	(0.11)	0.89	(0.13)	0.89	(0.12)	0.57	(0.11)
Black or Black British	2.45	(1.33)	1.54	(0.78)	1.95	(0.88)	1.36	(0.55)	0.86	(0.27)	0.88	(0.43)
Chinese or Other	1.51	(0.62)	1.84	(0.88)	1.76	(0.64)	1.64	(0.57)	1.34	(0.41)	1.37	(0.73)
<i>P</i> value	.034		.029		.085		.096		.302		.046	

Predictor variable	CQ item (N)*											
	Q13 <sup>†</sup> (14,545)		Q14 <sup>†</sup> (15,628)		Q15 <sup>†</sup> (13,674)		Q16 <sup>‡</sup> (15,533)		Q17 <sup>†</sup> (15,748)		Q18 <sup>†</sup> (15,254)	
<b>CQ return method</b>												
Electronic	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Paper	1.10	(0.16)	1.07	(0.12)	1.28	(0.15)	0.28	(0.08)	0.56	(0.14)	0.43	(0.11)
<i>P</i> value	.492		.540		.027		<b>&lt;.001</b>		.028		.001	
<b>Gender</b>												
Male	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Female	1.16	(0.12)	1.14	(0.10)	1.09	(0.09)	1.43	(0.45)	1.05	(0.26)	1.10	(0.25)
<i>P</i> value	.164		.122		.299		.255		.850		.661	
<b>Age</b>												
16-29 years	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
30-39 years	0.76	(0.21)	0.73	(0.16)	1.13	(0.20)	1.35	(1.10)	0.90	(0.59)	0.17	(0.17)
40-49 years	0.72	(0.20)	0.65	(0.14)	0.90	(0.15)	0.93	(0.70)	0.80	(0.51)	0.18	(0.19)
50-59 years	0.74	(0.20)	0.64	(0.14)	0.84	(0.15)	0.87	(0.65)	0.62	(0.39)	0.16	(0.17)
Over 60 years	0.76	(0.24)	0.92	(0.23)	1.11	(0.23)	3.12	(2.94)	0.63	(0.44)	0.47	(0.52)
<i>P</i> value	.808		.023		.013		.158		.685		.014	
<b>Ethnic group</b>												
White	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Mixed	0.97	(0.31)	0.80	(0.19)	1.36	(0.34)	1.20	(1.22)	0.51	(0.31)	0.66	(0.41)
Asian or Asian British	1.11	(0.17)	1.21	(0.16)	1.39	(0.18)	1.36	(0.74)	0.41	(0.13)	0.97	(0.35)
Black or Black British	1.23	(0.46)	1.91	(0.71)	2.61	(0.99)	0.67	(0.69)	1.12	(1.16)	0.26	(0.14)
Chinese or Other	1.56	(0.58)	1.53	(0.46)	1.86	(0.55)	1.18	(1.23)	0.73	(0.54)	0.75	(0.49)
<i>P</i> value	.707		.094		.001		.970		.077		.267	

Predictor variable	Q1 <sup>†</sup>		Q2 <sup>†</sup>		Q3 <sup>†</sup>		Q4 <sup>†</sup>		Q5 <sup>†</sup>		Q6 <sup>†</sup>	
	(14834)		(14018)		(14367)		(13379)		(11954)		(13538)	
<b>Professional role</b>												
Doctor	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Trainee doctor	1.08	(0.33)	1.04	(0.30)	1.42	(0.36)	1.02	(0.27)	1.27	(0.33)	1.28	(0.25)
Healthcare professional	1.86	(0.30)	1.53	(0.22)	1.23	(0.15)	1.28	(0.17)	1.20	(0.16)	1.61	(0.16)
Admin/managerial	2.97	(0.73)	3.02	(0.74)	2.05	(0.38)	2.32	(0.48)	1.88	(0.36)	2.75	(0.36)
Other	1.43	(0.77)	1.44	(0.79)	0.75	(0.28)	1.52	(0.83)	1.88	(1.15)	2.29	(0.98)
<i>P</i> value	<b>&lt;.001</b>		<b>&lt;.001</b>		<b>&lt;.001</b>		<b>&lt;.001</b>		.012		<b>&lt;.001</b>	

<b>Recency of familiarity</b>												
Current colleague	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Within last 2 years	0.72	(0.14)	0.72	(0.14)	0.85	(0.14)	0.83	(0.16)	0.75	(0.13)	1.11	(0.19)
Between 2 and 5 years	1.05	(0.28)	1.02	(0.25)	1.19	(0.25)	1.02	(0.24)	0.92	(0.20)	0.81	(0.14)
Between 5 and 10 years	1.22	(0.38)	1.43	(0.43)	1.34	(0.34)	1.02	(0.25)	1.17	(0.29)	0.95	(0.18)
More than 10 years ago	0.75	(0.24)	1.12	(0.41)	1.03	(0.31)	0.78	(0.22)	1.11	(0.34)	0.78	(0.18)
<i>P</i> value	.412		.316		.510		.787		.473		.536	

<b>Frequency of contact</b>												
Most days	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Weekly	0.71	(0.10)	0.68	(0.09)	0.84	(0.09)	0.87	(0.10)	0.78	(0.09)	0.95	(0.08)
Monthly	0.53	(0.09)	0.57	(0.10)	0.75	(0.11)	0.76	(0.12)	0.68	(0.10)	1.16	(0.16)
Less often	0.31	(0.07)	0.32	(0.07)	0.38	(0.07)	0.47	(0.10)	0.36	(0.07)	0.88	(0.19)
<i>P</i> value	<b>&lt;.001</b>		<b>&lt;.001</b>		<b>&lt;.001</b>		.009		<b>&lt;.001</b>		.462	

Predictor variable	CQ item (N)*											
	Q7 <sup>†</sup>		Q8 <sup>†</sup>		Q9 <sup>†</sup>		Q10 <sup>†</sup>		Q11 <sup>†</sup>		Q12 <sup>†</sup>	
	(14,114)		(13,668)		(12,254)		(11,456)		(11,809)		(15,530)	
<b>Professional role</b>												
Doctor	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Trainee doctor	1.61	(0.44)	0.97	(0.26)	1.19	(0.28)	0.98	(0.21)	1.22	(0.26)	0.77	(0.23)
Healthcare professional	1.11	(0.13)	1.67	(0.25)	1.38	(0.16)	1.76	(0.22)	1.56	(0.17)	1.30	(0.21)

Admin/managerial	0.81	(0.11)	2.06	(0.41)	1.30	(0.17)	2.75	(0.47)	1.51	(0.19)	2.33	(0.52)
Other	0.64	(0.22)	0.86	(0.37)	0.70	(0.23)	2.09	(1.04)	0.93	(0.30)	0.88	(0.43)
<i>P</i> value	.024		<b>&lt;.001</b>		.024		<b>&lt;.001</b>		<b>&lt;.001</b>		.001	

### Recency of familiarity

Current colleague	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Within last 2 years	0.98	(0.17)	0.91	(0.17)	0.97	(0.16)	0.98	(0.19)	1.25	(0.22)	1.48	(0.40)
Between 2 and 5 years	0.97	(0.19)	0.92	(0.22)	0.81	(0.15)	0.83	(0.17)	1.21	(0.23)	0.99	(0.26)
Between 5 and 10 years	1.45	(0.34)	1.30	(0.38)	1.33	(0.30)	0.97	(0.22)	1.67	(0.36)	1.23	(0.39)
More than 10 years ago	1.18	(0.33)	0.78	(0.23)	1.26	(0.34)	0.75	(0.19)	0.88	(0.19)	0.71	(0.22)
<i>P</i> value	.549		.736		.411		.741		.058		.387	

### Frequency of contact

Most days	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Weekly	0.96	(0.10)	0.91	(0.11)	0.85	(0.08)	0.90	(0.09)	1.00	(0.09)	0.95	(0.13)
Monthly	0.85	(0.12)	0.71	(0.11)	0.95	(0.13)	1.06	(0.18)	0.98	(0.14)	1.20	(0.25)
Less often	0.41	(0.07)	0.59	(0.13)	0.79	(0.16)	0.69	(0.17)	0.75	(0.16)	0.60	(0.15)
<i>P</i> value	<b>&lt;.001</b>		.050		.269		.317		.617		.115	

Predictor variable	CQ item (N)*					
	Q13 <sup>†</sup> (14,545)	Q14 <sup>†</sup> (15,628)	Q15 <sup>†</sup> (13,674)	Q16 <sup>‡</sup> (15,533)	Q17 <sup>†</sup> (15,748)	Q18 <sup>†</sup> (15,254)
<b>Professional role</b>						
Doctor	1.00	-	1.00	-	1.00	-
Trainee doctor	1.18	(0.28)	1.16	(0.23)	1.65	(0.32) §
Healthcare professional	1.30	(0.15)	1.27	(0.12)	1.11	(0.10)
Admin/managerial	2.80	(0.46)	1.15	(0.13)	1.06	(0.10)
Other	1.07	(0.41)	0.89	(0.25)	1.41	(0.42)
<i>P</i> value	<b>&lt;.001</b>		.112		.070	.178
					.475	.998

### Recency of familiarity

Current colleague	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
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Supplemental digital content for Wright C, Richards SH, Hill JJ, Roberts MJ, Norman GR, Greco M, Taylor MRS, Campbell JL. Multisource feedback in evaluating the performance of doctors: The example of the UK General Medical Council patient and colleague questionnaires. *Acad Med.* 2012;87(12).

Within last 2 years	1.00	(0.18)	1.04	(0.15)	1.21	(0.17)	0.86	(0.42)	0.93	(0.35)	1.19	(0.48)
Between 2 and 5 years	0.95	(0.19)	1.13	(0.19)	1.30	(0.20)	1.10	(0.67)	1.31	(0.63)	0.61	(0.21)
Between 5 and 10 years	0.92	(0.19)	1.53	(0.29)	1.15	(0.18)	0.60	(0.29)	1.09	(0.52)	1.27	(0.58)
More than 10 years ago	0.95	(0.26)	0.79	(0.16)	1.04	(0.21)	0.50	(0.27)	1.30	(0.80)	0.93	(0.47)
<i>P</i> value	.993		.114		.277		.674		.962		.618	

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**Frequency of contact**

Most days	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-	1.00	-
Weekly	0.99	(0.10)	0.95	(0.07)	0.94	(0.07)	0.86	(0.26)	0.78	(0.18)	1.13	(0.24)
Monthly	1.12	(0.17)	1.04	(0.12)	1.43	(0.18)	0.43	(0.15)	0.96	(0.33)	1.51	(0.51)
Less often	0.79	(0.17)	0.84	(0.14)	1.05	(0.20)	0.44	(0.23)	0.47	(0.18)	0.59	(0.22)
<i>P</i> value	.524		.588		.006		.091		.254		.190	

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\* CQ responses have been dichotomised: scores of 1 to 3 = "Satisfactory" or poorer; scores of 4 or 5 = "Good" or better.

† The clustering effect of 'doctor' was statistically significant ( $P < .001$ ).

‡ The clustering effect of 'doctor' on Q16 was not statistically significant ( $P = .125$ ).

§ Coefficients not estimable due to quasi-complete separation in the data; role category was merged with that on the row above.