

**Supplemental Table 1. Risk factor questions.**

**Questions for all patients:**

1. What is your usual country of residence? \_\_\_\_\_
2. Have you travelled overseas in the past 12 months? If yes:
  - a. Where? \_\_\_\_\_
  - b. When, and for how long? \_\_\_\_\_
  - c. If you have had more than one overseas trip in the past 12 months, please list the countries you have visited: \_\_\_\_\_
3. Have you had an overnight stay in hospital in the past 12 months? If yes:
  - a. Which country \_\_\_\_\_
  - b. If in the UK, which hospital? \_\_\_\_\_
  - c. If you have had more than one overnight hospital stay, please say how many: \_\_\_\_\_
4. Have you received antibiotics in the past 6 months?
  - a. None
  - b. 1 course
  - c. More than one course
5. For patients who declined to submit a rectal swab: why did you decline to submit a swab?
  - a. Because I didn't want to have a rectal swab.
  - b. Other reason.
  - c. No reason.

**Supplemental Table 2. Risk factors for patients who were PCR+ but culture negative at the time of initial sample collection.**

Risk factors	PCR- with risk factor	PCR- without risk factor	PCR+ with risk factor	PCR+ without risk factor
Overnight hospital stay in the past 12 months - overseas hospital (any country)	30	3976	0	71
Overnight hospital stay in the past 12 months - overseas hospital (CPE risk countries*)	15	3991	0	71
Overnight hospital stay in the past 12 months - any UK hospital (including London)	1515	2491	33	38
Overnight hospital stay in the past 12 months - within M25	1321	2685	31	40
Overnight hospital stay in the past 12 months - GSTT	1102	2904	25	46
Overnight hospital stay in the past 12 months - North West	8	3998	0	71
Overseas travel in the past 12 months	1166	2840	27	44
Non-UK residents	41	3965	3	68
Antibiotics in the past 6 months - one course	1087	2919	17	55
Antibiotics in the past 6 months - more than one course	1734	2272	21	55
Antibiotics in the past 6 months - any	2821	1185	38	34
Risk factors excluding antibiotics	2706	1300	49	22
Any risk factor	3296	710	58	13

\* As defined by the PHE Toolkit <sup>12</sup>

**Supplemental Table 3. Comparison of demographics comparing patients who agreed to participate with patients who did not.**

	Did not participate (n=6971)	Participated (n=6971)
Median age (95% confidence level for median)	52 (52-53)	58 (57-59)
Female gender (%)	3360 (48.2)	2148 (48.2)
Admission method (%)		
Elective	1780 (25.5)	2044 (25.5)
Non-elective	5191 (74.5)	2491 (74.5)
Ethnic group (%)		
Asian or Asian British	247 (3.5)	151 (3.5)
Black or Black British	999 (14.3)	629 (14.3)
Mixed	87 (1.2)	40 (1.2)

Not Stated	1193	(17.1)	770
Other Ethnic Groups	337	(4.8)	188
White	4108	(58.9)	2757

---

Continuous variables were compared using non-parametric comparison of independent medians; categorical variable were compared using Chi-squared tests.

There is a minor discrepancy between the number of patients who participated by our manually collected prospective database (n=4563) and the electronic records matched for this retrospective comparison (n=4535). This is probably caused by incorrect coding of the admissions ward in the electronic records.

