

Table S1: Logistic regression analysis for prevalence of IgG antibodies to SARS-CoV-2

	<i>Categories</i>	<i>Odds ratio [95% CI] unadjusted</i>	<i>Odds ratio [95% CI] adjusted for age, sex, region</i>	<i>Odds ratio [95% CI] fully adjusted¹</i>
Sex				
	Male	reference	reference	Reference
	Female	1.02 [0.97,1.08]	1.00 [0.95,1.06]	0.96 [0.91,1.02]
Age				
	18-24	1.28 [1.14,1.44]	1.31 [1.17,1.47]	1.39 [1.23,1.56]
	25-34	1.25 [1.14,1.37]	1.22 [1.11,1.34]	1.24 [1.13,1.37]
	35-44	reference	reference	Reference
	45-54	1.08 [0.99,1.18]	1.13 [1.03,1.23]	1.16 [1.07,1.27]
	55-64	0.98 [0.90,1.07]	1.04 [0.95,1.13]	1.17 [1.07,1.29]
	65-74	0.63 [0.57,0.70]	0.68 [0.61,0.76]	0.93 [0.82,1.05]
	75+	0.63 [0.54,0.73]	0.68 [0.59,0.79]	0.97 [0.83,1.15]
Region				
	North East	1.22 [1.05,1.43]	1.21 [1.04,1.42]	1.20 [1.02,1.41]
	North West	1.33 [1.21,1.47]	1.33 [1.20,1.47]	1.32 [1.19,1.47]
	Yorkshire	0.96 [0.84,1.10]	0.96 [0.84,1.10]	0.97 [0.84,1.11]
	East Midlands	1.05 [0.95,1.16]	1.04 [0.94,1.16]	1.04 [0.94,1.16]
	West Midlands	1.27 [1.14,1.42]	1.27 [1.14,1.42]	1.28 [1.15,1.42]
	East of England	1.25 [1.13,1.37]	1.24 [1.13,1.36]	1.25 [1.14,1.38]
	London	2.59 [2.37,2.84]	2.48 [2.27,2.72]	2.36 [2.15,2.60]
	South East	reference	reference	Reference
	South West	0.82 [0.72,0.93]	0.83 [0.73,0.94]	0.84 [0.74,0.95]
Employment				
	Healthcare (patient-facing)	2.04 [1.82,2.29]	2.19 [1.95,2.46]	2.09 [1.86,2.35]
	Healthcare (other)	1.10 [0.87,1.40]	1.15 [0.90,1.46]	1.12 [0.88,1.43]
	Care home (client-facing)	2.90 [2.37,3.55]	3.19 [2.60,3.92]	3.09 [2.51,3.80]
	Care home other	1.46 [0.81,2.64]	1.67 [0.92,3.02]	1.67 [0.92,3.03]
	Other essential worker	1.05 [0.98,1.13]	1.11 [1.03,1.20]	1.10 [1.02,1.18]
	Other worker	reference	reference	Reference
	Not in employment	0.72 [0.67,0.77]	0.86 [0.80,0.93]	0.84 [0.77,0.90]
Ethnicity				
	White	reference	reference	Reference
	Mixed	1.56 [1.27,1.90]	1.21 [0.99,1.48]	1.23 [1.01,1.51]
	Asian	2.04 [1.83,2.28]	1.56 [1.39,1.75]	1.44 [1.28,1.63]
	Black	3.21 [2.67,3.87]	2.27 [1.88,2.75]	2.01 [1.65,2.44]
	Other	2.11 [1.67,2.66]	1.50 [1.18,1.90]	1.47 [1.15,1.87]
Household size				
	1	reference	reference	reference
	2	1.03 [0.94,1.12]	1.04 [0.95,1.14]	1.05 [0.96,1.15]
	3	1.24 [1.13,1.37]	1.10 [1.00,1.22]	1.10 [1.00,1.22]
	4	1.30 [1.18,1.43]	1.15 [1.04,1.27]	1.15 [1.03,1.27]
	5	1.49 [1.32,1.69]	1.30 [1.14,1.47]	1.27 [1.12,1.44]
	6	1.78 [1.49,2.14]	1.51 [1.26,1.82]	1.43 [1.18,1.72]
	7+	2.10 [1.65,2.68]	1.72 [1.34,2.21]	1.58 [1.22,2.04]
Deprivation Quintile				
	(most deprived)1	1.32 [1.20,1.45]	1.15 [1.04,1.26]	1.11 [1.00,1.23]
	2	1.14 [1.05,1.24]	0.97 [0.89,1.06]	0.95 [0.87,1.03]
	3	1.07 [0.99,1.16]	1.00 [0.93,1.09]	0.99 [0.91,1.07]
	4	0.99 [0.92,1.07]	0.96 [0.88,1.03]	0.95 [0.88,1.03]
	(least deprived) 5	reference	reference	reference
History of COVID-19				
	Positive PCR test	200.58 [152.20,264.35]	201.99 [153.01,266.66]	179.03 [134.16,238.91]
	Suspected by doctor	20.68 [18.08,23.66]	19.68 [17.17,22.56]	19.41 [16.91,22.29]
	Suspected by respondent	9.78 [9.20,10.40]	9.47 [8.89,10.08]	9.46 [8.88,10.08]
	No	reference	reference	reference
Symptom severity				
	No symptoms	reference	reference	reference
	Mild symptoms	1.39 [1.10,1.76]	1.47 [1.16,1.86]	1.56 [1.23,1.99]
	Moderate symptoms	1.71 [1.36,2.15]	1.84 [1.46,2.32]	2.02 [1.59,2.56]

Severe symptoms	2.31 [1.82,2.93]	2.51 [1.97,3.19]	2.74 [2.14,3.50]
Symptoms			
Appetite loss	7.63 [7.14,8.15]	7.41 [6.93,7.93]	7.38 [6.89,7.90]
Nausea/vomiting	5.37 [4.85,5.95]	5.04 [4.55,5.60]	4.97 [4.47,5.52]
Diarrhoea	6.19 [5.67,6.76]	5.89 [5.39,6.43]	5.83 [5.33,6.39]
Abdominal pain / belly ache	4.62 [4.15,5.14]	4.35 [3.91,4.85]	4.28 [3.83,4.78]
Runny nose	3.84 [3.53,4.18]	3.61 [3.31,3.93]	3.59 [3.30,3.92]
Sneezing	3.68 [3.34,4.05]	3.44 [3.13,3.80]	3.40 [3.08,3.76]
Blocked nose	4.05 [3.72,4.41]	3.75 [3.44,4.08]	3.69 [3.38,4.02]
Sore eyes	4.87 [4.44,5.35]	4.71 [4.29,5.18]	4.72 [4.28,5.19]
Loss of sense of smell	22.92 [21.44,24.50]	22.01 [20.56,23.56]	22.01 [20.53,23.59]
Loss of sense of taste	19.98 [18.72,21.31]	19.20 [17.98,20.51]	19.35 [18.09,20.70]
Sore throat	3.59 [3.37,3.84]	3.38 [3.16,3.62]	3.34 [3.12,3.58]
Hoarse voice	3.17 [2.87,3.50]	3.07 [2.78,3.40]	3.10 [2.80,3.43]
Headache	6.51 [6.14,6.90]	6.22 [5.86,6.61]	6.17 [5.81,6.56]
Dizziness	5.09 [4.68,5.52]	4.75 [4.37,5.16]	4.75 [4.36,5.17]
Shortness of breath	4.62 [4.32,4.95]	4.47 [4.17,4.79]	4.51 [4.20,4.84]
New persistent cough	4.03 [3.78,4.29]	3.87 [3.63,4.12]	3.84 [3.60,4.10]
Tight chest	4.42 [4.13,4.74]	4.23 [3.94,4.53]	4.23 [3.94,4.54]
Chest pain	3.87 [3.52,4.25]	3.58 [3.26,3.94]	3.58 [3.25,3.94]
Fever	6.32 [5.95,6.72]	6.01 [5.65,6.39]	5.98 [5.62,6.36]
Chills	6.30 [5.87,6.76]	5.92 [5.51,6.36]	5.91 [5.49,6.35]
Difficulty sleeping	4.09 [3.78,4.41]	3.87 [3.59,4.19]	3.85 [3.56,4.16]
Tiredness	7.93 [7.49,8.39]	7.60 [7.17,8.05]	7.62 [7.19,8.08]
Severe fatigue	6.92 [6.45,7.43]	6.59 [6.13,7.08]	6.53 [6.07,7.02]
Numbness/tingling	5.92 [5.24,6.69]	5.65 [4.99,6.40]	5.65 [4.98,6.41]
Heavy arms/legs	6.03 [5.61,6.47]	5.79 [5.38,6.23]	5.81 [5.39,6.25]
Muscle aches	7.33 [6.91,7.77]	7.04 [6.63,7.47]	7.00 [6.59,7.44]
None of these symptoms	1.50 [0.65,3.46]	1.34 [0.58,3.12]	1.15 [0.46,2.88]
Contact with case			
Yes, with confirmed case	5.14 [4.72,5.61]	4.76 [4.37,5.20]	4.37 [3.98,4.80]
Yes, with suspected case	4.51 [4.17,4.88]	4.06 [3.75,4.40]	4.03 [3.71,4.37]
No	reference	reference	reference
Number of pre-existing health conditions¹			
>1	0.84 [0.78,0.90]	0.93 [0.86,1.00]	0.94 [0.87,1.01]
1	0.94 [0.88,1.00]	0.99 [0.93,1.06]	0.99 [0.93,1.06]
0	reference	reference	reference
BMI			
Underweight (<18.5)	0.99 [0.77,1.28]	0.89 [0.69,1.15]	0.89 [0.68,1.15]
Normal (18.5-24.9)	reference	reference	reference
Overweight (25-29.9)	1.09 [1.02,1.16]	1.18 [1.10,1.26]	1.16 [1.09,1.25]
Obese (>=30)	1.11 [1.03,1.20]	1.19 [1.10,1.29]	1.18 [1.09,1.28]
Current smoker			
Yes	0.70 [0.63,0.77]	0.65 [0.58,0.71]	0.64 [0.58,0.71]
No	reference	reference	reference
Care home resident			
Yes	0.82 [0.36,1.85]	0.85 [0.37,1.93]	0.58 [0.23,1.43]
No	reference	reference	reference

Legend Odds ratios [95% confidence intervals] from univariable logistic regression for the covariate of interest, adjusted odds ratio from multivariable logistic regression for the covariate of interest for age, sex, and region. ¹ Jointly adjusted odds ratios were obtained from multivariable logistic regression adjusting for age, sex, ethnicity, region, deprivation, household size and employment status

