Supplementary tables

Table S1. Infection by composite measures, unadjusted odds ratio, odds ratio adjusted for region, vaccine status, living alone, living with children, and living in a deprived area, adjusted odds ratios additionally adjusted for number of known contacts, and adjusted odds ratios additionally adjusted for age.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity** | **Category** | **N=11,413 (% in category)** | **Number of infections n= 493 (% within category)** | **Unadjusted OR (95% CI), p**  | **Adjusted OR (95% CI), p****(n=11,232)** | **Adjusted OR additionally adjusted for number of contacts (95% CI), p** | **Adjusted OR additional adjusted for age (95% CI), p** |
| Leaves home for work or education | NoneAt least once | 7,294 (64%)4,119 (36%) | 259 (3.6%)234 (5.7%) | 1.001.64 (1.37 – 1.96)p<0.0001 | 1.001.35 (1.11 – 1.64)P=0.0029 | 1.001.34 (1.09 – 1.63)P=0.0044 | 1.001.09 (0.88-1.33)P=0.4354 |
| All public transport (no car share) | NoneAny | 5,902 (52%)5,511 (48%) | 219 (3.7%)274 (4.9%) | 1.001.36 (1.13 – 1.62)P=0.0009 | 1.001.27 (1.04 – 1.57)P=0.0211 | 1.001.27 (1.03 – 1.56)P=0.0236 | 1.001.27 (1.03 – 1.56)P=0.0231 |
| Retail | NoneUp to once More than once to three timesMore than three times |  482 (4%)2,022 (18%)5,745 (50%)3,164 (28%) |  14 (2.9%)110 (5.4%)262 (4.6%)107 (3.4%) | 0.85 (0.49 – 1.50)1.64 (1.25 – 2.16)1.37 (1.09 – 1.72)1.00P=0.0010 | 1.05 (0.58 – 1.88)1.83 (1.36 – 2.45)1.51 (1.19 – 1.92)1.00P=0.0001 | 1.06 (0.59 – 1.89)1.83 (1.37 – 2.46)1.52 (1.19 – 1.92)1.00P=0.0001 | 1.02 (0.57 – 1.84)1.80 (1.34 – 2.42)1.49 (1.18 – 1.90)1.00P=0.0002 |
| Indoor hospitality and socialising (pub, restaurant, party) | Up to onceMore than once | 6,531 (57%)4,882 (43%) | 258 (3.9%)235 (4.8%) | 1.001.23 (1.03 – 1.47)P=0.0254 | 1.001.21 (0.98 – 1.48)P=0.0710 | 1.001.19 (0.98 – 1.47)P=0.0853 | 1.001.21 (0.99 – 1.49)P=0.0633 |
| Outdoor hospitality and socialising (pub, restaurant, party) | NoneAt least once | 6,777 (59%)4,636 (41%) | 276 (4.1%)217 (4.7%) | 1.001.16 (0.96 – 1.39)P=0.1179 | 1.001.14 (0.94 – 1.39)P=0.1860 | 1.001.14 (0.94 – 1.39)P=0.1913 | 1.001.10 (0.91 – 1.34)P=0.3275 |
| Indoor leisure (gym, theatre/cinema etc) | NoneAt least once  | 6,713 (59%)4,700 (41%) | 258 (3.8%)235 (5.0%) | 1.001.32 (1.01 – 1.58)P=0.0029 | 1.001.24 (1.02 – 1.51)P=0.0284 | 1.001.24 (1.02 – 1.51)P=0.0329 | 1.001.21 (0.99 – 1.48)P=0.0531 |
| Outdoor leisure (team sport outdoors) | NoneAt least once  | 10,570 (93%) 843 (7%) | 449 (4.3%) 44 (5.2%) | 1.001.24 (0.90 – 1.71)p=0.1943 | 1.001.14 (0.82 – 1.59)P=0.4521 | 1.001.13 (0.81 – 1.58)P=0.4658 | 1.001.15 (0.83 – 1.61)P=0.4130 |
| Non-social activity (hairdresser/beautician etc) | NoneAt least once | 7,469 (65%)3,944 (35%) | 351 (4.7%)142 (3.6%) | 1.000.76 (0.62 – 0.92)P=0.0053 | 1.000.74 (0.59 – 0.90)P=0.0031 | 1.000.73 (0.59 – 0.90)P=0.0030 | 1.000.74 (0.60 – 0.91)P=0.0037 |
| Region | East MidlandsEast of EnglandLondonNorth EastNorth WestSouth EastSouth WestWalesW. MidlandsYorkshire & The HumberMissing | 1,065 (9%)2,551 (23%)1,202 (11%) 581 (5%)1,192 (11%)2,210 (19%) 924 (8%) 266 (2%) 626 (6%) 615 (5%)181 |  35 (3.3%) 92 (3.6%) 57 (4.7%) 35 (6.0%) 62 (5.2%)102 (4.6%) 33 (3.6%) 18 (6.8%) 33 (5.3%) 15 (2.4%) | 1.001.10 (0.74 – 1.64)1.47 (0.95 – 2.25)1.89 (1.17 – 3.05)1.61 (1.06 – 2.46)1.42 (0.96 – 2.11)1.09 (0.67 – 1.77)2.14 (1.19 – 3.83)1.64 (1.01 – 2.66)0.74 (0.39 – 1.36)P=0.0028 | 1.001.12 (0.75 – 1.67)1.04 (0.64 – 1.69)1.89 (1.16 – 3.10)1.58 (1.02 – 2.44)1.47 (0.99 – 2.19)1.20 (0.73 – 1.97)2.61 (1.44 – 4.74)1.53 (0.94 – 2.52)0.69 (0.37 – 1.29)P=0.0010 | 1.001.12 (0.75 – 1.67)1.04 (0.64 – 1.69)1.90 (1.16 – 3.11)1.58 (1.02 -2.44)1.47 (0.99 – 2.19)1.20 (0.73 – 1.97)2.62 (1.45 – 4.77)1.54 (0.94 – 2.52)0.69 (0.37 – 1.29)P=0.0009 | 1.001.12 (0.75 – 1.68)1.03 (0.64 – 1.68)1.96 (1.19 – 3.20)1.58 (1.02 – 2.44)1.48 (0.99 – 2.22)1.22 (0.74 – 1.99)2.59 (1.43 – 4.72)1.55 (0.95 – 2.54)0.72 (0.89 – 1.34)P=0.0010 |
| Vaccinated at study entry  | YesNo | 10,726 (94%) 687 (6%) | 464 (4.2%) 29 (4.3%) | 1.000.97 | 1.000.96 (0.64 – 1.43)P=0.8360 | 1.000.96 (0.64 – 1.43)P=0.8292 | 1.000.93 (0.62 – 1.39)P=0.7219 |
| Lives alone | Lives aloneLives with someone | 2,869 (25%)8,544 (75%) |  81 (2.8%)412 (4.8%) | 1.001.74 (1.37 – 2.22)P <0.0001 | 1.001.54 (1.19 – 1.98)P=0.0007 | 1.001.53 (1.19 – 1.98)P=0.0007 | 1.001.54 (1.19 – 1.98)P=0.0006 |
| Lives with children | NoYes | 10,679 (94%) 734 (6%) | 404 (3.8%) 89 (12.1%) | 1.003.51 (2.58– 4.47)p<0.0001 | 1.002.93 (2.25 – 3.82)P<0.0001 | 1.002.93 (2.25 – 3.81)P<0.0001 | 1.002.39 (1.82 – 3.13)P<0.0001 |
| Residential area | Any ruralAny urbanAny conurbationmissing | 2,886 (26%)5,209 (46%)3,137 (28%)181 | 106 (3.7%)216 (4.2%)160 (5.1%) | 1.001.13 (0.89 – 1.43)1.41 (1.09 – 1.81)P=0.0201 | 1.001.09 (0.86 – 1.39)1.35 (0.99 – 1.84)P=0.1508 | 1.001.09 (0.86 – 1.39)1.35 (0.99 – 1.84)P=0.1514 | 1.001.07 (0.84 – 1.37)1.31 (0.96 – 1.78)P=0.2148 |
| Deprivation score (IMD quintile) 1= most deprived | 12345Missing |  852 (8%)1,589 (14%)2,290 (20%)3,032 (27%)3,469 (31%)181 |  44 (5.2%) 69 (4.3%) 94 (4.1%)141 (4.7%)134 (3.9%) | 1.36 (0.96 – 1.92)1.13 (0.84 – 1.52)1.07 (0.81 – 1.39)1.21 (0.95 – 1.55)1.00P=0.3764 | 1.35 (0.94 – 1.95)1.14 (0.84 – 1.56)1.15 (0.88 – 1.52)1.24 (0.97 – 1.58)1.00P=0.3956 | 1.35 (0.94 – 1.96)1.14 (0.84 – 1.56)1.16 (0.88 – 1.52)1.24 (0.97 – 1.59)1.00P=0.3876 | 1.27 (0.88 – 1.83)1.08 (0.79 – 1.47)1.13 (0.85 – 1.49)1.21 (0.94 – 1.55)1.00P=0.5570 |
| Age | Working Age65 and aboveMissing | 5,370 (47%)6,042 (53%)1 | 331 (6.2%)162 (2.7%) | 2.38 (1.97 – 2.89)1.00P<0.0001 | Not in model | Not in model | 1.87 (1.50 – 2.34)1.00P<0.000\* |
| Contacts | 0 – 5 More than 5   | 6,124 (54%)5,289 (46%) | 242 (3.9%)251 (4.8%) | 1.001.21 (1.01- 1.45)P=0.0377 | Not in model | 1.001.05 (0.86 – 1.28)P=0.5101 | Not in model |

\*wald test value given when there was missing data on the co-variable