**Table 3. Multiply-adjusted odds ratios (95% CI) for incident COVID-19 hospitalisation according to baseline socioeconomic characteristics**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Socioeconomic characteristics** | **Number of cases/**  **number at risk1** | **Adjustments** | | | | |  | |
|  |  | **None** | **Age, sex & ethnicity** | **Age, sex, ethnicity & comorbidity2** | **Age, sex, ethnicity & lifestyle factors3** | **Age, sex, ethnicity & psychological factors4** | | **Adjusted for all covariates** | |
| Educational attainment |  | N=422057 | N=420502 | N=415945 | N=415367 | N=155244 | | N=152739 | |
| Degree | 174/137717 | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | | 1.0 (ref) | |
| Other qualifications | 295/214337 | 1.09 (0.90, 1.31) | 1.15 (0.95, 1.38) | 1.11 (0.92, 1.35) | 1.16 (1.03, 1.31) | 1.04 (0.76, 1.42) | | 0.90 (0.66, 1.25) | |
| No qualifications | 173/70003 | 1.96 (1.59, 2.42) | 1.91 (1.54, 2.38) | 1.69 (1.35, 2.12) | 1.62 (1.38, 1.91) | 1.28 (0.83, 1.97) | | 0.92 (0.58, 1.45) | |
| P for trend |  | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.308 | | 0.642 | |
|  |  |  |  |  |  |  | |  | |
| Annual household income |  | N=364219 | N=363175 | N=359853 | N=359491 | N=138207 | | N=135773 | |
| <£18,000 | 174/81207 | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | | 1.0 (ref) | |
| £18,000-£30,999 | 128/92461 | 0.65 (0.51, 0.81) | 0.68 (0.54, 0.85) | 0.70 (0.55, 0.88) | 0.78 (0.61, 0.98) | 0.99 (0.66, 1.47) | | 1.07 (0.71, 1.63) | |
| £31,000-£51,999 | 126/95454 | 0.62 (0.49, 0.77) | 0.68 (0.53, 0.86) | 0.72 (0.50, 0.86) | 0.84 (0.66, 1.07) | 0.91 (0.60, 1.40) | | 1.09 (0.70, 1.69) | |
| £52,000-£100,000 | 87/74856 | 0.54 (0.42, 0.70) | 0.61 (0.47, 0.80) | 0.65 (0.50, 0.86) | 0.82 (0.62, 1.08) | 0.88 (0.54, 1.42) | | 1.02 (0.62, 1.69) | |
| >£100,000 | 24/20241 | 0.55 (0.36, 0.85) | 0.62 (0.40, 0.96) | 0.69 (0.45, 1.07) | 0.90 (0.58, 1.41) | 1.27 (0.66, 2.42) | | 1.64 (0.84, 3.20) | |
| P for trend |  | <0.0001 | <0.0001 | 0.003 | 0.283 | 0.958 | | 0.431 | |
|  |  |  |  |  |  |  | |  | |
| Townsend Deprivation Index |  | N=430538 | N=427986 | N=419593 | N=418942 | N=156919 | | N=153384 | |
| 1 (low) | 143/143483 | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | 1.0 (ref) | | 1.0 (ref) | |
| 2 | 201/143548 | 1.41 (1.13, 1.74) | 1.40 (1.13, 1.74) | 1.35 (1.08, 1.68) | 1.32 (1.06, 1.64) | 1.35 (0.95, 1.93) | | 1.25 (0.87, 1.79) | |
| 3 | 143/143517 | 2.28 (1.87, 2.77) | 2.11 (1.72, 2.58) | 1.91 (1.56, 2.35) | 1.70 (1.37, 2.10) | 1.55 (1.09, 2.21) | | 1.19 (0.82, 1.71) | |
| P for trend |  | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.015 | | 0.404 | |
|  |  |  |  |  |  |  | |  | |

1 Numbers based on unadjusted model

2 Comorbidity includes diagnoses of vascular or heart disease, diabetes, chronic bronchitis or emphysema, asthma, and hypertension defined according to measured blood pressure and/or use of anti-hypertensive medication

3 Lifestyle factors includes body mass index, smoking status, alcohol intake frequency & number of types of physical activity taken in last four weeks

4 Psychological factors includes psychological distress, psychiatric consultation, neuroticism, verbal and numerical reasoning, & reaction time.