|  |  |  |
| --- | --- | --- |
|  | Age-sex adj | Fully adj |
| **Age** |  |  |
| 18-<40 | 0.05 (0.04-0.08) | 0.07 (0.05-0.10) |
| 40-<50 | 0.27 (0.21-0.34) | 0.31 (0.25-0.39) |
| 50-<60 | 1.00 (ref) | 1.00 (ref) |
| 60-<70 | 2.61 (2.29-2.96) | 2.09 (1.84-2.38) |
| 70-<80 | 7.61 (6.78-8.54) | 4.77 (4.23-5.38) |
| 80+ | 26.27 (23.52-29.33) | 12.64 (11.19-14.28) |
|  |  |  |
| **Sex** |  |  |
| Female | 1.00 (ref) | 1.00 (ref) |
| Male | 2.24 (2.12-2.36) | 1.99 (1.99-2.10) |
|  |  |  |
| **BMI** |  |  |
| Not obese | 1.00 (ref) | 1.00 (ref) |
| Obese class I (30-34.9kg/m2) | 1.57 (1.47-1.68) | 1.27 (1.18-1.36) |
| Obese class II (35-39.9kg/m2) | 2.01 (1.82-2.21) | 1.56 (1.41-1.73) |
| Obese class III (≥40 kg/m2) | 2.97 (2.62-3.38) | 2.27 (1.99-2.58) |
|  |  |  |
| **Smoking** |  |  |
| Never | 1.00 (ref) | 1.00 (ref) |
| Ex-smoker | 1.80 (1.70-1.90) | 1.25 (1.18-1.33) |
| Current | 1.25 (1.12-1.40) | 0.88 (0.79-0.99) |
|  |  |  |
| **Ethnicity\*** |  |  |
| White | 1.00 (ref) | 1.00 (ref) |
| Mixed | 1.83 (1.33-2.51) | 1.64 (1.19-2.26) |
| Asian or Asian British | 1.95 (1.73-2.18) | 1.62 (1.43-1.82) |
| Black | 2.17 (1.84-2.57) | 1.71 (1.44-2.02) |
| Other | 1.34 (1.03-1.74) | 1.33 (1.03-1.73) |
|  |  |  |
| **IMD quintile** |  |  |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) |
| 2 | 1.18 (1.08-1.29) | 1.13 (1.04-1.24) |
| 3 | 1.35 (1.23-1.47) | 1.23 (1.13-1.35) |
| 4 | 1.70 (1.56-1.86) | 1.49 (1.37-1.63) |
| 5 (most deprived) | 2.13 (1.95-2.33) | 1.75 (1.60-1.91) |
|  |  |  |
| **Blood pressure** |  |  |
| Normal | 1.00 (ref) | 1.00 (ref) |
| High, or diagnosed hyper-tension | 1.22 (1.15-1.30) | 0.95 (0.89-1.01) |
|  |  |  |
| ***Co-morbidities*** |  |  |
| **Respiratory disease ex asthma** | 2.35 (2.21-2.50) | 1.78 (1.67-1.90) |
|  |  |  |
| **Asthma (vs none)\*** |  |  |
| With no recent OCS use | 1.23 (1.14-1.33) | 1.11 (1.02-1.20) |
| With recent OCS use | 1.70 (1.48-1.96) | 1.25 (1.08-1.44) |
|  |  |  |
| **Chronic heart disease** | 2.01 (1.90-2.13) | 1.27 (1.20-1.35) |
|  |  |  |
| **Diabetes (vs none)**\*\* |  |  |
| Controlled (HbA1c<58mmol/mol) | 2.02 (1.89-2.16) | 1.50 (1.40-1.60) |
| Uncontrolled (HbA1c≥58mmol/mol) | 3.61 (3.34-3.90) | 2.36 (2.18-2.56) |
| No recent HbA1c measure | 2.35 (2.04-2.70) | 1.87 (1.63-2.16) |
|  |  |  |
| **Cancer (non-haematological, vs none)** |  |  |
| Diagnosed < 1 year ago | 1.83 (1.51-2.21) | 1.56 (1.29-1.89) |
| Diagnosed 1-4.9 years ago | 1.39 (1.22-1.58) | 1.19 (1.04-1.35) |
| Diagnosed ≥5 years ago | 1.03 (0.94-1.12) | 0.97 (0.88-1.06) |
|  |  |  |
| **Haematological malignancy (vs none)** |  |  |
| Diagnosed < 1 year ago | 4.03 (2.76-5.88) | 3.52 (2.41-5.14) |
| Diagnosed 1-4.9 years ago | 3.59 (2.88-4.48) | 3.12 (2.50-3.89) |
| Diagnosed ≥5 years ago | 2.13 (1.76-2.59) | 1.88 (1.55-2.29) |
|  |  |  |
| **Liver disease** | 2.34 (1.94-2.83) | 1.61 (1.33-1.95) |
|  |  |  |
| **Stroke/dementia** | 2.34 (2.18-2.51) | 1.79 (1.67-1.93) |
|  |  |  |
| **Other neurological** | 2.94 (2.62-3.30) | 2.46 (2.19-2.76) |
|  |  |  |
| **Kidney disease** | 2.19 (2.06-2.32) | 1.72 (1.62-1.83) |
|  |  |  |
| **Organ transplant** | 7.79 (5.88-10.33) | 4.27 (3.20-5.70) |
|  |  |  |
| **Spleen diseases** | 1.82 (1.21-2.74) | 1.41 (0.93-2.12) |
|  |  |  |
| **Rheumatoid/Lupus/ Psoriasis** | 1.35 (1.24-1.48) | 1.23 (1.12-1.35) |
|  |  |  |
| **Other immunosuppressive condition** | 2.02 (1.45-2.81) | 1.69 (1.21-2.34) |

*FOOTNOTES: Ethnicity effect estimated from a model restricted to those with recorded ethnicity. Models adjusted for age using a 4-knot cubic spline age spline, except for estimation of age group effects. OCS = oral corticosteroids. \*Recent OCS use defined as in the year before baseline. \*\*HbA1c classification based on latest measure within 15 months before baseline.*