|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ECDS Event HR (95% CI)** | | **ITU admission HR (95% CI)** | | **CPNS Death HR (95% CI)** | | **ONS COVID-19 Death HR**  **(95% CI)** | |
|  | Age-sex adj | Fully adj | Age-sex adj | Fully adj | Age-sex adj | Fully adj | Age-sex adj | Fully adj |
| **Age** |  |  |  |  |  |  |  |  |
| 18-<40 |  |  |  |  | 0.05 (0.03-0.08) | 0.06 (0.04-0.09) |  |  |
| 40-<50 |  |  |  |  | 0.28 (0.21-0.36) | 0.31 (0.23-0.41) |  |  |
| 50-<60 |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| 60-<70 |  |  |  |  | 2.76 (2.36-3.23) | 2.32 (1.99-2.72) |  |  |
| 70-<80 |  |  |  |  | 8.36 (7.27-9.63) | 6.05 (5.25-6.99) |  |  |
| 80+ |  |  |  |  | 27.06 (23.63-30.98) | 17.01 (14.77-19.59) |  |  |
|  |  |  |  |  |  |  |  |  |
| **Sex** |  |  |  |  |  |  |  |  |
| Female |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| Male |  |  |  |  | 2.31 (2.16-2.47) | 1.98 (1.85-2.12) |  |  |
|  |  |  |  |  |  |  |  |  |
| **BMI (kg/m2)** |  |  |  |  |  |  |  |  |
| <40 |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| ≥40 |  |  |  |  | 3.33 (2.88-3.84) | 2.41 (2.08-2.79) |  |  |
|  |  |  |  |  |  |  |  |  |
| **Smoking** |  |  |  |  |  |  |  |  |
| Non-smoker |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| Current |  |  |  |  | 0.90 (0.82-0.99) | 0.80 (0.72-0.88) |  |  |
|  |  |  |  |  |  |  |  |  |
| **Ethnicity\*** |  |  |  |  |  |  |  |  |
| White |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| Black |  |  |  |  | 1.89 (1.30-2.75) | 1.68 (1.15-2.45) |  |  |
| Asian |  |  |  |  | 2.01 (1.76-2.30) | 1.52 (1.32-1.74) |  |  |
| Mixed |  |  |  |  | 2.18 (1.79-2.65) | 1.78 (1.45-2.17) |  |  |
| Other |  |  |  |  | 1.45 (1.07-1.95) | 1.35 (1.00-1.82) |  |  |
|  |  |  |  |  |  |  |  |  |
| **IMD quintile** |  |  |  |  |  |  |  |  |
| 1 (least deprived) |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| 2 |  |  |  |  | 0.78 (0.70-0.85) | 0.83 (0.75-0.91) |  |  |
| 3 |  |  |  |  | 0.64 (0.58-0.71) | 0.72 (0.65-0.79) |  |  |
| 4 |  |  |  |  | 0.55 (0.50-0.61) | 0.64 (0.58-0.71) |  |  |
| 5 (most deprived) |  |  |  |  | 0.48 (0.44-0.54) | 0.58 (0.53-0.65) |  |  |
|  |  |  |  |  |  |  |  |  |
| **Blood pressure** |  |  |  |  |  |  |  |  |
| Normal |  |  |  |  | 1.00 (ref) | 1.00 (ref) |  |  |
| High |  |  |  |  | 0.73 (0.68-0.77) | 0.79 (0.74-0.84) |  |  |
|  |  |  |  |  |  |  |  |  |
| ***Co-morbidities*** |  |  |  |  |  |  |  |  |
| Respiratory disease ex asthma |  |  |  |  | 2.35 (2.18-2.53) | 1.87 (1.72-2.02) |  |  |
| Asthma |  |  |  |  | 1.63 (1.49-1.79) | 1.25 (1.14-1.38) |  |  |
| Chronic heart disease |  |  |  |  | 1.86 (1.74-2.00) | 1.40 (1.30-1.50) |  |  |
| Diabetes |  |  |  |  | 2.39 (2.24-2.55) | 1.98 (1.86-2.12) |  |  |
| Cancer ex haem (in last year) |  |  |  |  | 1.64 (1.31-2.05) | 1.54 (1.23-1.93) |  |  |
| Canc haem/ apl anaem /bone mrrw transpl  (last yr) |  |  |  |  | 2.64 (2.16-3.23) | 1.48 (1.20-1.82) |  |  |
| Liver disease |  |  |  |  | 2.33 (1.87-2.91) | 1.68 (1.34-2.10) |  |  |
| Stroke/  dementia |  |  |  |  | 2.24 (2.06-2.43) | 1.80 (1.65-1.96) |  |  |
| Other neurological |  |  |  |  | 2.65 (2.31-3.05) | 2.22 (1.93-2.56) |  |  |
| Kidney disease |  |  |  |  |  |  |  |  |
| Organ transplant |  |  |  |  | 7.09 (5.05-9.94) | 5.19 (3.68-7.32) |  |  |
| Spleen diseases |  |  |  |  | 2.04 (1.30-3.21) | 1.73 (1.10-2.71) |  |  |
| Rheumatoid/Lupus/ Psoriasis |  |  |  |  | 1.40 (1.26-1.56) | 1.26 (1.13-1.40) |  |  |
| Endocrine disease | (later) |  |  |  |  |  |  |  |
| **Immunosuppression not classified elsewhere** | (later) |  |  |  |  |  |  |  |

**GREY HIGHLIGHT = DUMMY DATA - NOT REAL; YELLOW HIGHLIGHT = YET TO BE IMPLEMENTED**

FOOTNOTES: Ethnicity/BMI from a CC model? Adjustment for age slpine?