|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **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 | 1.00 ( .- .) | 1.00 ( .- .) | 2.8e+10 ( 2.9e+09- 2.7e+11) | 1.0e+10 ( 4.8e+08- 2.2e+11) | 4.0e+14 (0.00- .) | 7.5e+15 (0.00- .) | 0.01 (0.00- .) | 0.01 (0.00- .) |
| 40-<50 | 1.04 (0.99-1.09) | 1.02 (0.97-1.08) | 1.5e+10 ( 9.1e+08- 2.4e+11) | 4.5e+09 ( 1.4e+08- 1.5e+11) | 0.03 (0.00- .) | 0.12 (0.00- .) | 0.01 (0.00- .) | 0.02 (0.00- .) |
| 50-<60 | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 60-<70 | 1.02 (0.96-1.07) | 1.01 (0.95-1.06) | 0.00 ( .- .) | 0.00 ( .- .) | 0.02 (0.00- .) | 0.00 ( .- .) | 0.01 (0.00- .) | 0.01 (0.00- .) |
| 70-<80 | 1.02 (0.97-1.08) | 1.01 (0.95-1.07) | 0.00 ( .- .) | 0.00 ( .- .) | 0.02 (0.00- .) | 0.15 (0.00- .) | 0.01 (0.00- .) | 0.01 (0.00- .) |
| 80+ | 0.99 (0.95-1.03) | 0.97 (0.92-1.02) | 1.4e+10 ( .- .) | 1.7e+09 ( .- .) | 0.01 (0.00- .) | 0.14 (0.00- .) | 4.1e+14 (0.00- .) | 2.1e+16 (0.00- .) |
|  |  |  |  |  |  |  |  |  |
| **Sex** |  |  |  |  |  |  |  |  |
| Female | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Male | 0.99 (0.96-1.02) | 1.00 (0.97-1.04) | 5.51 (0.57-53.48) | 10.25 (0.46-228.72) | 1.01 (0.98-1.04) | 0.00 (0.00- .) | 0.99 (0.96-1.02) | 0.00 (0.00- .) |
|  |  |  |  |  |  |  |  |  |
| **BMI (kg/m2)** |  |  |  |  |  |  |  |  |
| <40 | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| ≥40 | 1.42 (0.93-2.19) | 1.36 (0.88-2.12) | 0.00 ( .- .) | 0.00 ( .- .) | 1.45 (0.96-2.21) | 1.44 (0.94-2.21) | 0.80 (0.45-1.41) | 0.76 (0.42-1.38) |
|  |  |  |  |  |  |  |  |  |
| **Smoking** |  |  |  |  |  |  |  |  |
| Non-smoker | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Current | 1.02 (0.99-1.06) | 1.01 (0.97-1.06) | 3.59 (0.53-24.40) | 5.04 (0.60-42.43) | 1.00 (0.97-1.04) | 1.00 (0.95-1.04) | 0.99 (0.95-1.02) | 0.99 (0.94-1.03) |
|  |  |  |  |  |  |  |  |  |
| **Ethnicity\*** |  |  |  |  |  |  |  |  |
| White | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| Black | 1.01 (0.72-1.42) | 1.03 (0.73-1.45) | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR |
| Asian | 0.93 (0.59-1.46) | 0.90 (0.56-1.46) | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR |
| Mixed | 0.98 (0.41-2.36) | 1.03 (0.43-2.50) | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR |
| Other | 0.98 (0.65-1.50) | 2.05 (1.00-4.20) | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR | 1.00 ( .- .) | ERROR |
|  |  |  |  |  |  |  |  |  |
| **IMD quintile** |  |  |  |  |  |  |  |  |
| 1 (least deprived) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| 2 | 1.06 (1.01-1.11) | 1.05 (0.99-1.11) | 0.00 ( .- .) | 0.00 ( .- .) | 1.00 (0.95-1.04) | 0.98 (0.93-1.04) | 1.00 (0.95-1.05) | 1.00 (0.94-1.05) |
| 3 | 1.05 (1.00-1.10) | 1.04 (0.98-1.11) | 0.00 ( .- .) | 0.00 ( .- .) | 0.98 (0.93-1.03) | 0.97 (0.91-1.03) | 0.99 (0.94-1.04) | 0.98 (0.92-1.04) |
| 4 | 1.07 (1.01-1.12) | 1.06 (0.99-1.13) | 2.6e+10 ( 4.0e+09- 1.7e+11) | 3.4e+10 ( 5.3e+09- 2.2e+11) | 0.98 (0.93-1.03) | 0.96 (0.90-1.02) | 0.99 (0.94-1.04) | 0.97 (0.91-1.04) |
| 5 (most deprived) | 1.04 (1.00-1.09) | 1.03 (0.97-1.09) | 7.1e+09 ( .- .) | 8.0e+09 ( .- .) | 0.97 (0.92-1.01) | 0.95 (0.90-1.01) | 0.99 (0.95-1.04) | 0.99 (0.94-1.05) |
|  |  |  |  |  |  |  |  |  |
| **Blood pressure** |  |  |  |  |  |  |  |  |
| Normal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| High | 0.99 (0.96-1.02) | 1.00 (0.97-1.04) | 0.40 (0.04-3.76) | 0.23 (0.02-2.42) | 1.00 (0.97-1.03) | 1.00 (0.97-1.04) | 1.02 (0.99-1.05) | 1.02 (0.98-1.06) |
|  |  |  |  |  |  |  |  |  |
| ***Co-morbidities*** |  |  |  |  |  |  |  |  |
| Respiratory disease ex asthma | 0.95 (0.80-1.14) | 0.95 (0.80-1.14) | 0.00 ( .- .) | 0.00 ( .- .) | 0.91 (0.76-1.09) | 0.92 (0.77-1.10) | 0.00 ( .- .) | 0.95 (0.79-1.13) |
| Asthma | 1.68 (1.01-2.78) | 1.62 (0.98-2.70) | 0.00 ( .- .) | 0.00 ( .- .) | 1.01 (0.54-1.88) | 1.00 (0.54-1.85) | 0.41 (0.15-1.09) | 0.42 (0.16-1.11) |
| Chronic heart disease | 0.97 (0.93-1.00) | 0.93 (0.85-1.03) | 7.17 (0.81-63.32) | 53.13 (7.14-395.21) | 1.00 (0.96-1.04) | 0.99 (0.90-1.09) | 1.02 (0.98-1.06) | 0.99 (0.90-1.09) |
| Diabetes | 1.00 (0.96-1.03) | 1.04 (0.98-1.10) | 0.94 (0.09-9.64) | 1.02 (0.08-13.20) | 1.01 (0.98-1.05) | 1.03 (0.97-1.09) | 1.00 (0.97-1.04) | 0.98 (0.93-1.04) |
| Cancer ex haem (in last year) | 1.01 (0.97-1.04) | 1.01 (0.97-1.04) | 0.00 ( .- .) | 0.00 ( .- .) | 0.96 (0.93-1.00) | 0.96 (0.93-1.00) | 1.00 (0.97-1.04) | 1.00 (0.97-1.04) |
| Canc haem/ apl anaem /bone mrrw transpl  (last yr) | 1.00 (0.97-1.04) | 1.00 (0.97-1.04) | 0.00 ( .- .) | 0.00 ( .- .) | 0.98 (0.95-1.02) | 0.98 (0.95-1.02) | 1.00 (0.96-1.03) | 0.99 (0.96-1.03) |
| Liver disease | 1.00 (0.94-1.07) | 0.86 (0.69-1.06) | 0.00 ( .- .) | 0.00 ( .- .) | 1.01 (0.94-1.08) | 0.98 (0.79-1.23) | 0.42 ( .- .) | 1.03 (0.83-1.29) |
| Stroke/  dementia | 1.02 (0.95-1.09) | 1.18 (0.97-1.44) | 0.00 ( .- .) | 0.00 ( .- .) | 1.01 (0.94-1.08) | 1.02 (0.83-1.25) | 0.00 ( .- .) | 1.06 (0.87-1.30) |
| Other neurological | 0.82 (0.62-1.09) | 0.81 (0.61-1.09) | 0.00 ( .- .) | 0.00 ( .- .) | 0.89 (0.67-1.17) | 0.88 (0.66-1.16) | 1.06 (0.82-1.37) | 1.04 (0.80-1.35) |
| Kidney disease | 1.03 (0.97-1.10) | 1.03 (0.97-1.10) | 0.00 ( .- .) | 0.00 ( .- .) | 0.97 (0.91-1.03) | 0.97 (0.91-1.03) | 0.98 (0.91-1.04) | 0.98 (0.92-1.05) |
| Organ transplant | 0.99 (0.93-1.05) | 0.99 (0.93-1.06) | 0.00 ( .- .) | 0.00 ( .- .) | 1.06 (1.00-1.13) | 1.06 (0.99-1.12) | 0.97 (0.91-1.03) | 0.97 (0.91-1.04) |
| Spleen diseases | 0.95 (0.90-1.00) | 1.02 (0.90-1.15) | 0.00 ( .- .) | 0.00 ( .- .) | 1.00 (0.95-1.05) | 0.96 (0.85-1.08) | 1.01 (0.96-1.06) | 1.00 (0.88-1.13) |
| Rheumatoid/Lupus/ Psoriasis | 1.00 (0.85-1.19) | 0.98 (0.83-1.18) | 0.00 ( .- .) | 0.00 ( .- .) | 0.80 (0.66-0.97) | 0.81 (0.67-0.99) | 0.00 ( .- .) | 1.02 (0.86-1.21) |
| 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?