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| **Appendix 7.** Details of logistic regression analyses for the ICU population compared to the hospital population |
| Outcome variable |  | ICU population | Hospital population |
| One or more chronic conditions | Crude OR | 3.03 (2.84; 3.24) |  |
|  | OR for males \* | 3.86 (3.53; 4.21) |  |
|  | OR for females \* | 3.39 (3.05; 3.77) |  |
|  | Age | 1.03 (1.02; 1.03) | 1.03 (1.03; 1.03) |
|  | Gender | 0.76 (0.70; 0.83) | 0.87 (0.78; 0.97) |
|  | SES | 0.98 (0.94; 1.01) | 0.97 (0.93; 1.02) |
| High cholesterol | Crude OR | 2.58 (2.37; 2.81) |  |
|  | OR for males ‡ | 4.12 (3.66; 4.63) |  |
|  | OR for females ‡ | 2.62 (2.24; 3.06) |  |
|  | Age | 1.03 (1.03; 1.04) | 1.03 (1.02; 1.03) |
|  | Gender | 0.46 (0.41; 0.51) | 0.72 (0.63; 0.83) |
|  | SES | 0.98 (0.94; 1.02) | 0.96 (0.90; 1.02) |
|  | Pre-existing chronic conditions | 0.78 (0.69; 0.87) | 1.09 (0.94; 1.28) |
| Heart diseases | Crude OR | 3.36 (3.07; 3.67) |  |
|  | OR for males ‡ | 5.20 (4.26; 6.35) |  |
|  | OR for females ‡ | 6.66 (5.37; 8.25) |  |
|  | Age | 1.05 (1.05; 1.06) | 1.08 (1.07; 1.09) |
|  | Gender | 1.14 (1.04; 1.25) | 0.89 (0.76; 1.04) |
|  | SES | 0.96 (0.92; 1.00) | 0.89 (0.84; 0.95) |
|  | Pre-existing chronic conditions | 1.69 (1.52; 1.87) | 1.95 (1.64; 2.31) |
| COPD | Crude OR | 2.61 (2.29; 2.98) |  |
|  | OR for males ‡ | 3.17 (2.38; 4.22) |  |
|  | OR for females ‡ | 3.99 (2.91; 5.48) |  |
|  | Age | 1.02 (1.02; 1.03) | 1.03 (1.02; 1.04) |
|  | Gender | 0.99 (0.86; 1.14) | 0.79 (0.62; 0.99) |
|  | SES | 0.93 (0.88; 0.99) | 0.95 (0.86; 1.04) |
|  | Pre-existing chronic conditions | 1.64 (1.38; 1.94) | 2.15 (1.66; 2.80) |
| Depression | Crude OR | 2.48 (2.15; 2.86) |  |
|  | OR for males ‡ | 2.75 (2.06; 3.65) |  |
|  | OR for females ‡ | 2.83 (2.16; 3.72) |  |
|  | Age | 0.99 (0.98; 0.99) | 0.99 (0.98; 0.99) |
|  | Gender | 1.65 (1.42; 1.91) | 1.59 (1.25; 2.03) |
|  | SES | 1.06 (0.99; 1.13) | 1.05 (0.95; 1.17) |
|  | Pre-existing chronic conditions | 1.08 (0.92; 1.28) | 1.45 (1.12; 1.89) |
| DM 2 | Crude OR | 1.70 (1.47; 1.97) |  |
|  | OR for males ‡ | 2.48 (1.77; 3.47) |  |
|  | OR for females ‡ | 2.71 (1.87; 3.94) |  |
|  | Age | 1.02 (1.01; 1.02) | 1.00 (0.99; 1.01) |
|  | Gender | 0.80 (0.67; 0.97) | 0.73 (0.57; 0.94) |
|  | SES | 0.86 (0.80; 0.93) | 0.90 (0.81; 0.99) |
|  | Pre-existing chronic conditions | 1.93 (1.56; 2.40) | 3.76 (2.81; 5.04) |
| Asthma | Crude OR | 1.38 (1.19; 1.59) |  |
|  | OR for males ‡ | 1.26 (0.95; 1.67) |  |
|  | OR for females ‡ | 1.91 (1.43; 2.54) |  |
|  | Age | 1.01 (1.00; 1.02) | 1.01 (1.00; 1.02) |
|  | Gender | 1.67 (1.38; 2.02) | 1.10 (0.87; 1.38) |
|  | SES | 0.95 (0.87; 1.03) | 1.01 (0.92; 1.12) |
|  | Pre-existing chronic conditions | 1.10 (0.89; 1.35) | 1.27 (1.00; 1.61) |
| DM 1 | Crude OR | 2.82 (2.33; 3.41) |  |
|  | OR for males ‡ | 8.44 (3.52; 20.23) |  |
|  | OR for females ‡ | 11.95 (4.86; 29.40) |  |
|  | Age | 1.00 (1.00; 1.01) | 0.99 (0.98; 1.01) |
|  | Gender | 0.96 (0.79; 1.17) | 0.68 (0.47; 0.97) |
|  | SES | 0.94 (0.86; 1.01) | 0.99 (0.86; 1.14) |
|  | Pre-existing chronic conditions | 4.73 (3.42; 6.55) | 22.29 (9.74; 51.03) |
| \*OR given for population with median age (65 year) and median SES (0.2) ‡ OR given for population with median age (65 year). median SES (0.2) and pre-existing chronic conditions = noInteraction term references: gender = male, pre-existing chronic conditions = noEpilepsy not analysed due to lack of power |