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| **Appendix 8.** Details of logistic regression analyses for the ICU population compared to the non-hospital population |
| Outcome variable |  | ICU population | Non-hospital population |
| One or more chronic conditions | Crude OR | 7.55 (6.93; 8.22) |  |
|  | OR for males \* | 8.46 (7.54; 9.49) |  |
|  | OR for females \* | 6.76 (5.86; 7.79) |  |
|  | Age | 1.03 (1.02; 1.03) | 1.03 (1.02; 1.03) |
|  | Gender | 0.76 (0.70; 0.83) | 0.95 (0.81; 1.12) |
|  | SES | 0.98 (0.94; 1.01) | 0.93 (0.87; 0.99) |
| High cholesterol | Crude OR | 5.31 (4.74; 5.95) |  |
|  | OR for males ‡ | 7.30 (6.28; 8.49) |  |
|  | OR for females ‡ | 4.47 (3.64; 5.51) |  |
|  | Age | 1.03 (1.03; 1.04) | 1.04 (1.03; 1.05) |
|  | Gender | 0.46 (0.41; 0.51) | 0.75 (0.60; 0.93) |
|  | SES | 0.98 (0.94; 1.02) | 0.94 (0.86; 1.03) |
|  | Pre-existing chronic conditions | 0.78 (0.69; 0.87) | 1.72 (1.28; 2.32) |
| Heart diseases | Crude OR | 16.95 (13.75; 20.89) |  |
|  | OR for males ‡ | 16.04 (11.15; 23.08) |  |
|  | OR for females ‡ | 24.73 (15.87; 38.53) |  |
|  | Age | 1.05 (1.05; 1.06) | 1.09 (1.07; 1.11) |
|  | Gender | 1.14 (1.04; 1.25) | 0.74 (0.48; 1.14) |
|  | SES | 0.96 (0.92; 1.00) | 0.77 (0.65; 0.91) |
|  | Pre-existing chronic conditions | 1.69 (1.52; 1.87) | 2.54 (1.68; 3.85) |
| COPD | Crude OR | 8.39 (6.49; 10.84) |  |
|  | OR for males ‡ | 6.55 (4.28; 10.03) |  |
|  | OR for females ‡ | 15.88 (8.6; 29.33) |  |
|  | Age | 1.02 (1.02; 1.03) | 1.05 (1.03; 1.07) |
|  | Gender | 0.99 (0.86; 1.14) | 0.41 (0.23; 0.73) |
|  | SES | 0.93 (0.88; 0.99) | 0.97 (0.78; 1.21) |
|  | Pre-existing chronic conditions | 1.64 (1.38; 1.94) | 3.41 (2.04; 5.69) |
| Depression | Crude OR | 3.67 (3.01; 4.46) |  |
|  | OR for males ‡ | 3.62 (2.56; 5.13) |  |
|  | OR for females ‡ | 3.38 (2.41; 4.74) |  |
|  | Age | 0.99 (0.98; 0.99) | 0.99 (0.98; 1.00) |
|  | Gender | 1.65 (1.42; 1.91) | 1.76 (1.22; 2.53) |
|  | SES | 1.06 (0.99; 1.13) | 0.95 (0.81; 1.12) |
|  | Pre-existing chronic conditions | 1.08 (0.92; 1.28) | 0.82 (0.48; 1.41) |
| DM 2 | Crude OR | 3.09 (2.51; 3.81) |  |
|  | OR for males ‡ | 3.49 (2.32; 5.23) |  |
|  | OR for females ‡ | 5.14 (3.10; 8.53) |  |
|  | Age | 1.02 (1.01; 1.02) | 1.01 (1.00; 1.03) |
|  | Gender | 0.80 (0.67; 0.97) | 0.55 (0.36; 0.83) |
|  | SES | 0.86 (0.80; 0.93) | 1.00 (0.85; 1.19) |
|  | Pre-existing chronic conditions | 1.93 (1.56; 2.40) | 7.03 (4.65; 10.61) |
| Asthma | Crude OR | 2.76 (2.22; 3.42) |  |
|  | OR for males ‡ | 2.65 (1.82; 3.86) |  |
|  | OR for females ‡ | 3.47 (2.35; 5.14) |  |
|  | Age | 1.01 (1.00; 1.02) | 1.00 (0.99; 1.02) |
|  | Gender | 1.67 (1.38; 2.02) | 1.27 (0.86; 1.88) |
|  | SES | 0.95 (0.87; 1.03) | 1.05 (0.88; 1.26) |
|  | Pre-existing chronic conditions | 1.10 (0.89; 1.35) | 1.91 (1.23; 2.97) |
| \*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 and DM 1 not analysed due to lack of power |