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| **Appendix 2.** Details of logistic regression analyses for the ICU population compared to the control group |
| Outcome variable |  | ICU population | Control group |
| One or more chronic conditions | Crude OR | 4.44 (4.19; 4.71) |  |
|  | OR for males \* | 5.29 (4.90; 5.72) |  |
|  | OR for females \* | 4.39 (3.99; 4.83) |  |
|  | Age | 1.03 (1.02; 1.03) | 1.04 (1.03; 1.04) |
|  | Gender | 0.76 (0.70; 0.83) | 0.92 (0.84; 1.00)  |
|  | SES | 0.98 (0.94; 1.01) | 0.96 (0.92; 0.99) |
| High cholesterol | Crude OR | 3.41 (3.17; 3.68) |  |
|  | OR for males ‡ | 5.30 (4.79; 5.87) |  |
|  | OR for females ‡ | 3.26 (2.83; 3.75) |  |
|  | Age | 1.03 (1.03; 1.04) | 1.04 (1.03; 1.04) |
|  | Gender | 0.46 (0.41; 0.51) | 0.75 (0.66; 0.84) |
|  | SES | 0.98 (0.94; 1.02) | 0.96 (0.91; 1.01) |
|  | Pre-existing chronic conditions | 0.78 (0.69; 0.87) | 1.32 (1.15; 1.51) |
| Heart diseases | Crude OR | 5.02 (4.62; 5.47) |  |
|  | OR for males ‡ | 7.46 (6.22; 8.95) |  |
|  | OR for females ‡ | 9.9 (8.11; 12.08) |  |
|  | Age | 1.05 (1.05; 1.06) | 1.09 (1.08; 1.10) |
|  | Gender | 1.14 (1.04; 1.25) | 0.86 (0.74; 1.00) |
|  | SES | 0.96 (0.92; 1.00) | 0.88 (0.82; 0.93) |
|  | Pre-existing chronic conditions | 1.69 (1.52; 1.87) | 2.39 (2.04; 2.80) |
| COPD | Crude OR | 3.60 (3.18; 4.07) |  |
|  | OR for males ‡ | 4.32 (3.33; 5.59) |  |
|  | OR for females ‡ | 6.01 (4.49; 8.05) |  |
|  | Age | 1.02 (1.02; 1.03) | 1.04 (1.03; 1.05) |
|  | Gender | 0.99 (0.86; 1.14) | 0.71 (0.57; 0.89) |
|  | SES | 0.93 (0.88; 0.99) | 0.95 (0.87; 1.04) |
|  | Pre-existing chronic conditions | 1.64 (1.38; 1.94) | 2.71 (2.14; 3.42) |
| Depression | Crude OR | 2.84 (2.51; 3.22) |  |
|  | OR for males ‡ | 3.13 (2.45; 4.01) |  |
|  | OR for females ‡ | 3.09 (2.44; 3.91) |  |
|  | Age | 0.99 (0.98; 0.99) | 0.99 (0.98; 1.00) |
|  | Gender | 1.65 (1.42; 1.91) | 1.67 (1.36; 2.04) |
|  | SES | 1.06 (0.99; 1.13) | 1.02 (0.93; 1.12) |
|  | Pre-existing chronic conditions | 1.08 (0.92; 1.28) | 1.42 (1.14; 1.77) |
| DM 2 | Crude OR | 2.09 (1.83; 2.38) |  |
|  | OR for males ‡ | 2.99 (2.23; 4.02) |  |
|  | OR for females ‡ | 3.49 (2.50; 4.88) |  |
|  | Age | 1.02 (1.01; 1.02) | 1.01 (1.00; 1.01) |
|  | Gender | 0.80 (0.67; 0.97) | 0.69 (0.56; 0.85) |
|  | SES | 0.86 (0.80; 0.93) | 0.92 (0.85; 1.00) |
|  | Pre-existing chronic conditions | 1.93 (1.56; 2.40) | 4.80 (3.78; 6.10) |
| Asthma | Crude OR | 1.73 (1.51; 1.98) |  |
|  | OR for males ‡ | 1.67 (1.29; 2.17) |  |
|  | OR for females ‡ | 2.41 (1.85; 3.13) |  |
|  | Age | 1.01 (1.00; 1.02) | 1.01 (1.00; 1.02) |
|  | Gender | 1.67 (1.38; 2.02) | 1.16 (0.95; 1.41) |
|  | SES | 0.95 (0.87; 1.03) | 1.02 (0.94; 1.12) |
|  | Pre-existing chronic conditions | 1.10 (0.89; 1.35) | 1.56 (1.27; 1.93) |
| Epilepsy | Crude OR | 11.86 (8.96; 15.7) |  |
|  | OR for males ‡ | 24.35 (14.00; 42.34) |  |
|  | OR for females ‡ | 20.91 (11.77; 37.15) |  |
|  | Age | 0.99 (0.98; 0.99) | 1.01 (0.99; 1.03) |
|  | Gender | 1.06 (0.88; 1.29) | 1.24 (0.73; 2.10) |
|  | SES | 1.01 (0.93; 1.10) | 1.05 (0.83; 1.33) |
|  | Pre-existing chronic conditions | 0.63 (0.51; 0.77) | 2.46 (1.36; 4.44) |

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| DM 1 | Crude OR | 4.06 (3.39; 4.86) |  |
|  | OR for males ‡ | 9.17 (4.69; 17.93) |  |
|  | OR for females ‡ | 13.80 (6.80; 28.00) |  |
|  | Age | 1.00 (1.00; 1.01) | 0.99 (0.98; 1.00) |
|  | Gender | 0.96 (0.79; 1.17) | 0.64 (0.46; 0.89) |
|  | SES | 0.94 (0.86; 1.01) | 1.00 (0.87; 1.14) |
|  | Pre-existing chronic conditions | 4.73 (3.42; 6.55) | 21.82 (11.89; 40.06) |
| \*OR given for population with median age (65 year) and median SES (0.2) \*OR given for population with median age (65 year) and median SES (0.2) and pre-existing chronic conditions = noInteraction term references: gender = male, pre-existing chronic condition = no |