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| **Suppl 2. The entropy balancing weighted characteristics of mechanically ventilated hospitalizations** |
| **with COVID-19 and influenza** |  |  |  |  |  |  |

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| **Variables** | **COVID-19a** | **Influenza** |  |  |
|  | **n = 19,659**  | **n = 2,536**  |  |  |
| **Age, years (%)** |  |  |  |  |
|  18-44 | 11.4 | 11.4 |  |  |
|  45-64 | 33.6 | 33.6 |  |  |
|  ≥ 65 | 54.9 | 54.9 |  |  |
| **Gender (%)** |  |  |  |  |
|  Female | 41.7 | 41.7 |  |  |
|  Male | 51 | 51 |  |  |
|  Suppressedb | 7.3 | 7.3 |  |  |
| **Race/ethnicity (%)** |  |  |  |  |
|  White | 50.7 | 50.7 |  |  |
|  Hispanic | 27.5 | 27.5 |  |  |
|  Black | 14.0 | 14.0 |  |  |
|  Other | 7.7 | 7.7 |  |  |
| **Health insurance (%)** |  |  |  |  |
|  Private | 43.7 | 43.7 |  |  |
|  Medicare | 35.1 | 35.1 |  |  |
|  Medicaid  | 7.0 | 7.0 |  |  |
|  Uninsured | 8.6 | 8.6 |  |  |
|  Other | 4.4 | 4.4 |  |  |
|  Missing | 1.1 | 1.1 |  |  |
| **Deyo comorbidity indexc** | 2.04 | 2.04 |  |  |
| **Comorbid conditions (%)** |  |  |  |  |
|  Diabetes | 42.4 | 42.4 |  |  |
|  Liver disease | 5.7 | 5.7 |  |  |
|  Malignancy | 6.5 | 6.5 |  |  |
|  Congestive heart failure | 33.8 | 33.8 |  |  |
|  Chronic lung disease | 28.5 | 28.5 |  |  |
|  Myocardial infarction | 15.2 | 15.2 |  |  |
|  Peripheral vascular disease | 3.6 | 3.6 |  |  |
|  Dementia | 7.7 | 7.7 |  |  |
|  Peptic ulcer disease | 1.5 | 1.5 |  |  |
|  Hemiplegia/paraplegia | 2.7 | 2.7 |  |  |
|  HIVd | 0.5 | 0.5 |  |  |
|  Cerebrovascular disease | 8.6 | 8.6 |  |  |
|  Chronic renal disease | 25.4 | 25.4 |  |  |
|  Rhumatological disease | 3.1 | 3.1 |  |  |
|  Obesity | 33.6 | 33.6 |  |  |
|  Tobacco use  | 9.9 | 9.9 |  |  |
|  Alcohol use | 3.8 | 3.8 |  |  |
|  Substance use | 3.9 | 3.9 |  |  |
| **Number of organ dysfunctionsc** | 2.61 | 2.61 |  |  |
| **Hemodialysis (%)** | 7.6 | 7.6 |  |  |
| **ECMOe (%)** | 0.3 | 0.3 |  |  |
| **Do-not-resuscitatef (%)** | 33.1 | 33.1 |  |  |
| **Palliative care (%)** | 22.1 | 22.1 |  |  |
| **Teaching hospital (%)** | 25.9 | 25.9 |  |  |
| **Hospital admission period (%)** |  |  |  |  |
|  Fourth quarter 2021 | 28.7 | 28.7 |  |  |
|  First quarter 2022 | 39.6 | 39.6 |  |  |
|  Second quarter 2022 | 3.6 | 3.6 |  |  |
|  Third quarter 2022 | 11.5 | 11.5 |  |  |
|  Fourth quarter 2022 | 6.5 | 6.5 |  |  |
|  First quarter 2023 | 10.0 | 10.0 |  |  |
| a COVID-19: coronavirus disease 2019 |  |  |  |
| b The State of Texas suppresses gender data of hospitalizations with human immunodeficiency virus infection,  |
|  alcohol use, and substance use |  |  |  |  |
| c mean value |  |  |  |  |
| d HIV: human immunodeficiency virus |  |  |  |
| e ECMO: extracorporeal membrane oxygenation |  |  |  |
| f Do-not-resuscitate: a do-not-resuscitate state |  |  |  |