

**Supplemental Table S1.** Variables and the corresponding ICD-10 codes.

| <b>Variables</b>                                 | <b>ICD-10 code</b>                                                                                |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Extracorporeal membrane oxygenation</b>       | 5A1522F, 5A1522G, 5A1522H                                                                         |
| <b>Invasive mechanical ventilation(IMV)</b>      | 0DH57BZ, 0DH58BZ, 0BH17EZ, 0BH18EZ, 0B717DZ, 0B718DZ, 0BH07DZ, 0WHQ7YZ, 5A1935Z, 5A1945Z, 5A1955Z |
| <b>Non-invasive mechanical ventilation(NIMV)</b> | 5A09357, 5A09457, 5A09557, 5A09358, 5A09458, 5A09558                                              |
| <b>Influenza</b>                                 | J10.xx to J11.xx, J09X, J09X1, J09X2, J09X3, J09X9                                                |
| <b>Congenital heart disease</b>                  | Q20.xx to Q26.xx                                                                                  |
| <b>Diabetes</b>                                  | E08.xx to E13.xx                                                                                  |
| <b>Obesity</b>                                   | E65, E66.xx                                                                                       |
| <b>Myocarditis</b>                               | I51.4, I40.8, I40.9, B33.20, I40.1, I40.0, J10.82, I41, B33.22, I40                               |
| <b>Tachyarrhythmias</b>                          | I47.1, I47.2, I49.01, I49.0, I48.0, I48.3, I48.4                                                  |
| <b>Heart block</b>                               | I44.1, I44.2                                                                                      |
| <b>Sudden cardiac arrest</b>                     | I46.x                                                                                             |
| <b>Asthma/reactive airway disease</b>            | J45.xx                                                                                            |
| <b>Prematurity (&lt;37 weeks of gestation)</b>   | P072.1 to P072.6, P073.x                                                                          |
| <b>Chromosomal anomalies</b>                     | Q90.xx-Q99.xx                                                                                     |
| <b>Acute renal failure</b>                       | N17, N170, N171, N172, N178, N179                                                                 |
| <b>Acute respiratory failure</b>                 | J9600, J9601, J9602                                                                               |
| <b>Dialysis</b>                                  | 5A1D00Z, 5A1D60Z, 3E1M39Z, 5A1D70Z, 5A1D80Z                                                       |
| <b>CPR (cardiopulmonary resuscitation)</b>       | 5A12012                                                                                           |