Supplementary Table 1. KCD-7 codes for the diagnosis of COVID-19 and patients' comorbidities.

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| Diagnosis | KCD-7 codes |  |
| Date of COVID-19 diagnosis |  |  |
| 2020-01-04 ~ 2020-01-28 | B34.2, B97.2 |  |
| 2020-01-28 ~ 2020-02-03 | U18, U18.1 |  |
| 2020-02-03 ~ 2999-12-31 | U07.1 |  |
| Comorbidities | KCD-7 codes |  |
| Cardiovascular disease | I20-I25 |  |
| Cerebrovascular disease | I60-64, I69 |  |
| Hypertension | I10, I11, I12, I13, I15 |  |
| Heart failure | I50 |  |
| Diabetes | E10-14 |  |
| Pulmonary disease | J42-J47, J60-67, J70.1, J70.3 |  |
| Malignancy | C00-C97 |  |
| Chronic kidney disease | N18, N19, Z94.0, Z49.1, Z49.2, Z99.2, T861 |  |
| Chronic liver disease | K70.3, K71.7, K72.1, K72.9, K74.3-6 |  |

Abbreviations: COVID-19, Coronavirus Disease 2019; KCD-7, Korean Standard Classification of Diseases and Causes of Death, 7th edition