Table 1. Multivariable predictive model of death within COVID 19 patients

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| --- | --- | --- | --- |
| **Variables** | **OR (99% CI)** | **p** | **Score** |
| *Sociodemographic variables* |  |  |  |
| **Gender** |  |  |  |
| Female | Ref | - | - |
| Male | 1.83 (1.67-2) | <0.0001 | 3 |
| **Age (years) categorized** |  |  |  |
| < 30 | Ref | - | - |
| 30-39 | 2.86 (0.71-11.43) | 0.1375 | 6 |
| 40-49 | 9.61 (2.92-31.62) | 2e-04 | 13 |
| 50-59 | 24.7 (7.78-78.49) | <0.0001 | 18 |
| 60-69 | 100.44 (32.13-314.01) | <0.0001 | 26 |
| 70-79 | 296.5 (95.17-923.74) | <0.0001 | 32 |
| 80-89 | 697.85 (224.08-2173.27) | <0.0001 | 37 |
| >= 90 | 1344.78 (430.91-4196.74) | <0.0001 | 41 |
| *Comorbidities* |  |  |  |
| **Peripheral vascular disease** | 1.24 (1.09-1.42) | 9e-04 | 1 |
| **Cerebrovascular disease** | 1.24 (1.12-1.37) | <0.0001 | 1 |
| **Dementia** | 2.47 (2.21-2.76) | <0.0001 | 5 |
| **Liver disease** |  |  |  |
| No | Ref | - | - |
| Mild | 1.22 (1.04-1.42) | 0.0138 | 1 |
| Moderate/Severe | 2.34 (1.66-3.29) | <0.0001 | 5 |
| **Diabetes** |  |  |  |
| No | Ref | - | - |
| Yes, without organ damage | 1.19 (1.07-1.33) | 0.0014 | 1 |
| Yes, with organ damage | 1.76 (1.48-2.1) | <0.0001 | 3 |
| **Hemiplegia / Paraplegia** | 1.65 (1.33-2.06) | <0.0001 | 3 |
| **Kidney** | 1.5 (1.35-1.66) | <0.0001 | 2 |
| **Cystic fibrosis** | 1.32 (1.1-1.59) | 0.0034 | 2 |
| **Interstitial lung disease** | 2.47 (1.68-3.63) | <0.0001 | 5 |
| **Tumor** | 2.05 (1.81-2.32) | <0.0001 | 4 |
| **Heart disease1** | 1.27 (1.13-1.44) | <0.0001 | 1 |
| **Heart failure2** | 1.55 (1.38-1.74) | <0.0001 | 2 |
| *Basic treatments* |  |  |  |
| **Diuretics** | 1.23 (1.1-1.37) | 2e-04 | 1 |
| **Chronic systemic steroids** | 2.81 (2.43-3.24) | <0.0001 | 6 |
|  | **Train (99%CI)** | **Test (99%CI)** | **Omicron (99%CI)** |
| **AUC** | 0.9508 (0.9470 – 0.9546) | 0.9509 (0.9471 – 0.9546) | 0.9571 (0.9472 – 0.9669) |
| **AUC\_score\_cont** | 0.9505 (0.9467 – 0.9544) | 0.9506 (0.9468 – 0.9543) | 0.9568 (0.9469 – 0.9667) |
| **AUC\_score\_cate (23, 33, 41)** | 0.9381 (0.9333 – 0.9430) | 0.9383 (0.9335 – 0.9432) | 0.9384 (0.9242 – 0.9526) |