|  |  |  |  |
| --- | --- | --- | --- |
|  | **OR** | **95% CI** | **P-value** |
| Fully Vaccinationstatus (vs. Partially) | 1.42 | 0.54 – 3.70 | 0.46 |
| Sex (Male) | 2.9 | 1.09 – 7.8 | 0.03 |
| No supplemental oxygen (vs. oxygen supplementation) | 0.45 | 0.06 – 0.29 | 0.001 |
| No clinical deterioration (vs. renal, hepatic, or neurological deterioration) | 0.05 | 0.01 – 0.22 | <0.001 |
| Diastolic Blood Pressure (mmHg) | 1.02 | 0.99 – 1.05 | 0.09 |
| Heart Rate (beats/min) | 1.02 | 1.00 – 1.05 | 0.01 |
| Respiratory Rate (breaths/min) | 1.18 | 1.06 – 1.32 | 0.003 |
| SPO2 (%) | 0.05 | 0.75 – 0.97 | 0.017 |
| WBC (4.5 – 12.5 x 103/uL) | 1.10 | 0.98 – 1.24 | 0.08 |
| Platelets(150 – 450 x 103/uL) | 0.99 | 0.99 – 1.01 | 0.14 |
| D-dimer(0.19 – 0.50 mg/L)  | 1.07 | 0.98 – 1.16 | 0.09 |
| Aspartate Aminotransferase (35 – 37 U/L) | 1.01 | 1.00 – 1.03 | 0.045 |
| Albumin(3.5 – 5.5 g/dL) | 0.48 | 0.16 – 1.40 | 0.18 |
| COPD | 0.41 | 0.11 – 1.35 | 0.14 |
| Immunocompromised status | 3.68 | 1.11 – 12.17 | 0.032 |

Suppl 1. Table S1. Univariate analysis predicting severe breakthrough COVID-19 infection. The variables with P value<0.20 are included in the table, except vaccination status. SPO2= Oxygen Saturation; WBC= White Cell Count; COPD= Chronic Obstructive Pulmonary Disease.