**Supplementary Table 1**. Dynamic variations in cell counts of total WBCs, total lymphocytes, and lymphocyte subsets in patients with non-severe COVID-19, severe COVID-19, and severe influenza A at weeks 1, 2, 3, and 4. Values represent P values.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| PatientGroups/Immune cell population | Wk1 -Wk2 | Wk1-Wk3 | Wk1-Wk4 | Wk2-Wk3 | Wk2-Wk4 | Wk3-Wk4 |
| Severe COVID-19 | WBC | 0.013 | 0.003 | 0.001 | 0.358 | 0.391 | 0.988 |
| LY | 0.646 | 0.013 | 0.002 | 0.001 | <0.001 | 0.719 |
| T cells | >0.999 | 0.214 | 0.034 | 0.161 | 0.003 | 0.167 |
| CD4+ T cells | 0.871 | 0.368 | 0.020 | 0.185 | 0.001 | 0.114 |
| CD8+ T cells | 0.703 | 0.461 | 0.330 | 0.185 | 0.060 | 0.606 |
| CD4+/CD8+ ratio | >0.999 | 0.683 | >0.999 | 0.414 | 0.440 | 0.636 |
| NK cells | >0.999 | 0.833 | 0.432 | 0.470 | 0.011 | 0.856 |
| B cells | 0.600 | 0.517 | 0.859 | 0.758 | >0.999 | 0.799 |
| Non-severe COVID-19 | WBC | 0.412 | 0.005 | 0.210 | 0.044 | 0.557 | 0.230 |
| LY | 0.079 | 0.004 | 0.049 | 0.138 | 0.568 | 0.642 |
| T cells | 0.265 | 0.504 | 0.984 | 0.045 | 0.236 | 0.406 |
| CD4+ T cells | 0.457 | 0.607 | 0.536 | 0.133 | 0.136 | 0.838 |
| CD8+ T cells | 0.670 | 0.482 | 0.962 | 0.204 | 0.590 | 0.565 |
| CD4+/CD8+ ratio | 0.738 | 0.444 | 0.908 | 0.598 | 0.876 | 0.556 |
| NK cells | 0.537 | 0.394 | 0.268 | 0.086 | 0.042 | 0.667 |
| B cells | 0.490 | 0.439 | 0.488 | 0.876 | 0.731 | 0.891 |
| Severe influenza A | WBC | 0.804 | - | - | - | - | - |
| LY | 0.088 | - | - | - | - | - |
| T cells | 0.003 |  |  |  |  |  |
| CD4+ T cells | 0.006 | - | - | - | - | - |
| CD8+ T cells | 0.030 | - | - | - | - | - |
| CD4+/CD8+ ratio | 0.517 | - | - | - | - | - |
| NK cells | - | - | - | - | - | - |
| B cells | - | - | - | - | - | - |

Abbreviations: WBC: White blood cells, LY: Lymphocytes, *P <* 0.05 is statistically significant