**Supplemental Table 2: Comparison of COVID19+ and COVID19- ICU patients (days 1-3)**

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| --- | --- | --- | --- | --- |
| **Analyte** | **ICU Day** | **COVID19+ Patients (n=10)** | **COVID19- Patients (n=10)** | **P-value** |
| TNF | 1 | 194.4 (124.3, 251.8) | 21.0 (6.4, 40.5) | <0.001\* |
|  | 2 | 141.2 (103.7, 216.9) | 18.0 (9.0, 39.8) | <0.001\* |
|  | 3 | 149.2 (94.8, 206.6) | 16.4 (2.0, 44.6) | 0.001\* |
| Granzyme B | 1 | 9.61 (5.33, 23.12) | 1.51 (1.11, 2.98) | <0.001\* |
|  | 2 | 7.97 (5.72, 13.63) | 1.26 (0.74, 1.94) | <0.001\* |
|  | 3 | 8.31 (5.02, 12.98) | 0.89 (0.63, 1.80) | <0.001\* |
| HSP70 | 1 | 208135 (142253, 318061) | 106995 (32750, 116705) | 0.002\* |
|  | 2 | 206109 (134528, 308362) | 65791 (40991, 116411) | 0.002\* |
|  | 3 | 236000 (130712, 362185) | 62810 (31960, 100732) | 0.001\* |
| IL18 | 1 | 141.4 (84.6, 252.9) | 33.8 (17.5, 64.3) | 0.005\* |
|  | 2 | 140.8 (86.8, 205.0) | 31.8 (10.8, 65.7) | 0.001\* |
|  | 3 | 123.7 (110.0, 189.8) | 48.2 (21.5, 69.8) | <0.001\* |
| IP10 | 1 | 3526 (1407, 19503) | 165 (41, 371) | 0.023 |
|  | 2 | 2496 (1081, 80080) | 94 (54, 381) | 0.004\* |
|  | 3 | 4289 (1108, 40564) | 149 (65, 526) | <0.001\* |
| Elastase 2 | 1 | 40.2 (19.0, 69.9) | 21.6 (15.6, 35.0) | 0.290 |
|  | 2 | 71.78 (33.92, 92.39) | 14.19 (10.31, 23.04) | 0.002\* |
|  | 3 | 75.00 (43.24, 121.40) | 24.98 (10.65, 34.78) | 0.002\* |
| IL10 | 1 | 44.26 (17.80, 170.55) | 14.56 (2.90, 28.17) | 0.010\* |
|  | 2 | 46.95 (23.29, 156.33) | 4.21 (0.14, 11.03) | 0.001\* |
|  | 3 | 34.26 (23.16, 81.40) | 2.23 (0, 9.42) | <0.001\* |
| MIG | 1 | 10221 (6285, 41017) | 2116 (1268, 3975) | 0.001\* |
|  | 2 | 11180 (4948, 37212) | 2684 (1089, 4606) | 0.002\* |
|  | 3 | 12237 (5795, 33781) | 1929 (998, 6329) | 0.003\* |
| M-CSF | 1 | 184.2 (127.6, 288.2) | 13.1 (0, 66.1) | 0.002\* |
|  | 2 | 162.1 (91.2, 311.3) | 26.2 (0, 102.0) | 0.004\* |
|  | 3 | 149.2 (107.6, 284.1) | 16.0 (0, 101.3) | 0.003\* |
| IFNg | 1 | 18.15 (7.82, 144.80) | 0 (0, 1.25) | 0.001\* |
|  | 2 | 7.36 (5.56, 26.24) | 0 (0, 2.04) | 0.001\* |
|  | 3 | 7.95 (5.42, 48.60) | 0.43 (0, 3.35) | 0.005\* |
| IL8 | 1 | 8.84 (5.67, 18.64) | 2.51 (1.13, 4.45) | 0.001\* |
|  | 2 | 6.51 (2.96, 10.06) | 1.93 (1.43, 3.32) | 0.005\* |
|  | 3 | 6.58 (4.68, 12.21) | 1.67 (0.65, 4.42) | 0.010\* |
| MMP8 | 1 | 2165 (1379, 4173) | 1666 (910, 4323) | 0.364 |
|  | 2 | 4308 (2149, 7385) | 1219 (521, 2753) | 0.008\* |
|  | 3 | 5745 (2624, 10956) | 1812 (460, 2503) | 0.002\* |
| IL2 | 1 | 0.33 (0, 1.87) | 0 (0, 0) | 0.005\* |
|  | 2 | 0 (0, 0.57) | 0 (0, 0) | 0.031 |
|  | 3 | 0.43 (0, 0.75) | 0 (0, 0) | 0.005\* |
| IL15 | 1 | 21.96 (12.78, 49.86) | 6.86 (2.69, 11.97) | 0.008\* |
|  | 2 | 16.40 (9.18, 31.76) | 8.06 (3.17, 13.17) | 0.016 |
|  | 3 | 17.10 (10.37, 44.19) | 5.49 (2.86, 12.69) | 0.010\* |
| IL-1RA | 1 | 123.84 (24.43, 1037.93) | 12.18 (5.69, 29.66) | 0.019 |
|  | 2 | 36.55 (22.41, 622.70) | 5.72 (3.26, 51.79) | 0.019 |
|  | 3 | 55.44 (21.86, 321.47) | 6.67 (2.27, 16.22) | 0.003\* |
| MMP1 | 1 | 1065 (414, 2330) | 804 (474, 1349) | 0.326 |
|  | 2 | 1424 (828, 3111) | 670 (301, 1115) | 0.034 |
|  | 3 | 1679 (800, 3382) | 704 (490, 1211) | 0.007\* |
| MCP-1 | 1 | 696.6 (439.9, 1093.2) | 356.7 (215.4, 481.7) | 0.007\* |
|  | 2 | 548.0 (453.3, 938.6) | 327.1 (193.2, 530.0) | 0.023 |
|  | 3 | 767.6 (498.3, 1032.4) | 237.6 (118.6, 748.4) | 0.041 |

Only analytes with statistically significant data on one or more days are shown. Data are presented as medians (IQRs) with analyte concentration in pg/ml (\*p<0.01). Analytes are ordered by top 6 as found through machine learning analysis, then analytes with all 3 days significant most to least by day 3, then analytes significant on days 2 and 3 only most to least by day 3, then analytes significant on days 1 and 3 only most to least by day 3, then analytes most to least significant on day 3 only, then analytes significant on day 1 only.