**Supplemental Table 3: 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** |
| IL1β | 1 | 9.12 (0, 16.07) | 0.83 (0, 4.79) | 0.093 |
|  | 2 | 7.96 (1.22, 13.74) | 0.43 (0, 7.33) | 0.108 |
|  | 3 | 11.51 (3.29, 18.45) | 0.01 (0, 4.12) | 0.016 |
| MIP-1β | 1 | 44.78 (35.88, 58.30) | 29.21 (23.92, 58.45) | 0.121 |
|  | 2 | 49.19 (40.83, 56.26) | 22.95 (17.44, 48.29) | 0.049 |
|  | 3 | 55.75 (41.30, 71.55) | 26.23 (12.14, 41.27) | 0.016 |
| VEGFA | 1 | 18.24 (10.13, 35.27) | 8.43 (0, 19.80) | 0.058 |
|  | 2 | 24.58 (10.64, 45.14) | 5.54 (0, 16.83) | 0.031 |
|  | 3 | 20.32 (14.56, 62.86) | 5.29 (0, 16.47) | 0.017 |
| EGF | 1 | 0 (0, 7.06) | 0 (0, 0) | 0.164 |
|  | 2 | 1.60 (0, 7.25) | 0 (0, 0) | 0.069 |
|  | 3 | 3.36 (0, 15.26) | 0 (0, 0) | 0.021 |
| IFNα2 | 1 | 21.21 (5.90, 44.64) | 0 (0, 10.80) | 0.023 |
|  | 2 | 23.61 (1.06, 33.54) | 5.49 (0, 11.39) | 0.072 |
|  | 3 | 189.05 (4.46, 38.56) | 3.21 (0, 14.19) | 0.027 |
| IL5 | 1 | 5.41 (3.16, 11.65) | 0.92 (0.26, 4.65) | 0.016 |
|  | 2 | 5.80 (1.97, 8.96) | 1.12 (0.65, 4.43) | 0.028 |
|  | 3 | 5.59 (3.93, 11.64) | 0.98 (0.46, 5.70) | 0.028 |
| Resistin | 1 | 39.15 (30.26, 118.81) | 30.35 (13.67, 62.65) | 0.364 |
|  | 2 | 59.09 (20.49, 152.07) | 28.58 (14.16, 58.11) | 0.070 |
|  | 3 | 60.51 (22.09, 104.87) | 31.26 (9.98, 38.70) | 0.034 |
| IL6 | 1 | 88.13 (39.35, 306.70) | 42.52 (20.12, 62.40) | 0.070 |
|  | 2 | 48.11 (18.00, 172.13) | 52.80 (20.28, 103.15) | 0.940 |
|  | 3 | 86.90 (24.54, 183.13) | 21.05 (5.62, 62.06) | 0.041 |
| IL17A | 1 | 2.39 (0, 8.47) | 0.39 (0, 1.53) | 0.078 |
|  | 2 | 1.46 (0, 6.81) | 0.62 (0, 1.38) | 0.159 |
|  | 3 | 3.50 (0.35, 8.35) | 0.39 (0, 1.30) | 0.044 |
| IL13 | 1 | 0 (0, 3.12) | 0 (0, 0) | 0.112 |
|  | 2 | 0 (0, 2.57) | 0 (0, 1.23) | 0.594 |
|  | 3 | 0.51 (0, 5.92) | 0 (0, 0) | 0.050 |
| IL4 | 1 | 0 (0, 0.61) | 0 (0, 0.13) | 0.428 |
|  | 2 | 0 (0, 0.32) | 0 (0, 0) | 0.358 |
|  | 3 | 0.20 (0, 0.71) | 0 (0, 0) | 0.051 |
| PDGF-AB/BB | 1 | 2570 (212, 3603) | 2032 (254, 2967) | 0.650 |
|  | 2 | 2839 (1496, 4697) | 927 (273, 2006) | 0.058 |
|  | 3 | 3276 (784, 3882) | 1509 (743, 2824) | 0.082 |
| RANTES | 1 | 8001 (2127, 12171) | 9615 (2199, 12576) | 1.000 |
|  | 2 | 10166 (6282, 17543) | 4406 (2783, 6679) | 0.028 |
|  | 3 | 9202 (5520, 11838) | 4528 (3445, 8102) | 0.082 |
| MIP-1α | 1 | 16.00 (0, 39.02) | 0 (0, 10.40) | 0.057 |
|  | 2 | 15.54 (0, 39.31) | 0 (0, 2.32) | 0.050 |
|  | 3 | 10.91 (0, 48.87) | 0 (0, 1.94) | 0.092 |
| IL12(p40) | 1 | 66.84 (33.26, 120.99) | 23.15 (3.17, 67.77) | 0.069 |
|  | 2 | 47.77 (20.27, 120.44) | 16.40 (0, 59.48) | 0.095 |
|  | 3 | 56.37 (22.33, 127.96) | 16.32 (0, 53.45) | 0.111 |
| MMP2 | 1 | 71040 (58159, 88142) | 60181 (51240, 78027) | 0.199 |
|  | 2 | 85122 (61224, 107706) | 69792 (49172, 93361) | 0.257 |
|  | 3 | 85391 (71355, 103442) | 71861 (58672, 87082) | 0.112 |
| NGAL | 1 | 117.5 (92.7, 506.7) | 153.1 (89.2, 226.2) | 0.940 |
|  | 2 | 186.9 (79.5, 517.9) | 150.1 (70.8, 206.5) | 0.450 |
|  | 3 | 218.0 (86.9, 468.6) | 120.4 (69.3, 193.7) | 0.131 |
| IL22 | 1 | 0 (0, 9.10) | 0 (0, 0) | 0.466 |
|  | 2 | 0 (0, 0) | 0 (0, 0) | 0.317 |
|  | 3 | 0 (0, 6.23) | 0 (0, 0) | 0.147 |
| IL3 | 1 | 0.47 (0, 2.24) | 0 (0, 0) | 0.036 |
|  | 2 | 0 (0, 0.50) | 0 (0, 0.18) | 0.456 |
|  | 3 | 0.74 (0, 1.05) | 0 (0, 0.28) | 0.159 |
| IL12(p70) | 1 | 0.69 (0, 3.70) | 0 (0, 1.88) | 0.385 |
|  | 2 | 0.46 (0, 2.83) | 0 (0, 1.00) | 0.456 |
|  | 3 | 1.87 (0, 5.70) | 0 (0, 2.85) | 0.169 |
| Lactoferrin | 1 | 272.0 (105.9, 1237.7) | 364.6 (211.6, 566.7) | 0.650 |
|  | 2 | 425.3 (222.9, 1111.2) | 230.9 (130.2, 327.9) | 0.059 |
|  | 3 | 339.6 (157.6, 961.8) | 246.1 (69.8, 420.7) | 0.174 |
| Thrombospondin-1 | 1 | 1294 (565, 2185) | 1757 (535, 2743) | 0.705 |
|  | 2 | 1817 (1217, 2885) | 831 (424, 1330) | 0.023 |
|  | 3 | 1680 (639, 2680) | 1117 (770, 1598) | 0.174 |
| TIMP3\* | 1 | 2058 (1380, 6263) | 2339 (1778, 3447) | 0.848 |
|  | 2 | 2892 (1747, 3576) | 1588 (1124, 2905) | 0.142 |
|  | 3 | 1955 (1508, 5232) | 1715 (1197, 1919) | 0.180 |
| MMP7 | 1 | 8329 (6727, 14994) | 7048 (3908, 13980) | 0.257 |
|  | 2 | 9201 (7118, 20213) | 4995 (3661, 15985) | 0.112 |
|  | 3 | 8595 (7718, 17725) | 5763 (3800, 15473) | 0.199 |
| MMP10 | 1 | 955 (420, 1211) | 609 (292, 1068) | 0.226 |
|  | 2 | 969 (521, 1188) | 812 (621, 1437) | 0.940 |
|  | 3 | 1200 (786, 1380) | 742 (441 (1462) | 0.199 |
| IL17E/IL25 | 1 | 197.54 (54.68, 599.32) | 12.50 (0, 431.27) | 0.217 |
|  | 2 | 187.69 (18.75, 574.36) | 35.67 (0, 609.25) | 0.515 |
|  | 3 | 223.97 (20.13, 604.83) | 83.25 (0, 427.09) | 0.209 |
| IL1α | 1 | 0.23 (0, 4.11) | 0 (0, 1.11) | 0.286 |
|  | 2 | 0.62 (0, 2.97) | 0 (0, 1.64) | 0.508 |
|  | 3 | 1.23 (0, 3.29) | 0 (0, 0.47) | 0.216 |
| MMP13 | 1 | 478.7 (35.3, 1574.4) | 528.6 (15.6, 1097.7) | 0.880 |
|  | 2 | 980.2 (594.8, 1490.9) | 450.8 (0, 1142.1)) | 0.075 |
|  | 3 | 979.8 (319.9, 1845.1) | 580.6 (53.8, 1197.1) | 0.289 |
| PDGF-AA | 1 | 148.7 (86.8, 243.9) | 176.5 (66.0, 245.4) | 0.940 |
|  | 2 | 189.4 (130.1, 299.2) | 106.8 (74.8, 130.7) | 0.019 |
|  | 3 | 179.0 (116.0, 355.9) | 147.2 (104.7, 190.3) | 0.290 |
| IL7 | 1 | 0 (0, 0.62) | 0 (0, 0.90) | 0.576 |
|  | 2 | 0 (0, 0.89) | 0 (0, 0.47) | 0.456 |
|  | 3 | 0 (0, 1.93) | 0 (0, 0.04) | 0.351 |
| MMP3 | 1 | 24891 (13382, 44388) | 22313 (9891, 55454) | 0.762 |
|  | 2 | 26129 (12251, 43670) | 36137 (22234, 62328) | 0.226 |
|  | 3 | 29977 (17373, 52508) | 44614 (22010, 79615) | 0.406 |
| MMP12 | 1 | 399.1 (261.6, 1137.1) | 801.3 (311.0, 839.2) | 0.940 |
|  | 2 | 663.4 (502.3, 1078.9) | 586.7 (350.5, 737.6) | 0.326 |
|  | 3 | 730.7 (415.6, 1277.5) | 547.2 (420.8, 790.5) | 0.450 |
| GM-CSF | 1 | 0 (0, 0.88) | 0 (0, 0) | 0.147 |
|  | 2 | 0 (0, 0) | 0 (0, 0) | 0.942 |
|  | 3 | 0 (0, 1.56) | 0 (0, 0) | 0.466 |
| TNFβ | 1 | 0 (0, 6.05) | 0 (0, 0) | 0.031 |
|  | 2 | 0 (0, 2.22) | 0 (0, 0) | 0.234 |
|  | 3 | 0 (0, 2.02) | 0 (0, 0) | 0.466 |
| MMP9 | 1 | 16223 (7206, 42662) | 36613 (14229, 52070) | 0.406 |
|  | 2 | 33854 (14469, 57042) | 12885 (8335, 20633) | 0.082 |
|  | 3 | 33171 (7678, 58034) | 19668 (14444, 28834) | 0.496 |
| G-CSF | 1 | 42.41 (10.01, 128.86) | 30.55 (0, 73.96) | 0.402 |
|  | 2 | 25.68 (0.39, 53.50) | 20.80 (0, 87.74) | 0.819 |
|  | 3 | 24.76 (0, 67.62) | 6.93 (0, 51.20) | 0.558 |
| IL17F | 1 | 21.26 (2.36, 30.04) | 0 (0, 32.00) | 0.274 |
|  | 2 | 11.25 (5.83, 21.79) | 2.42 (0, 32.00) | 0.301 |
|  | 3 | 15.96 (4.06, 32.96) | 4.30 (0, 64.00) | 0.591 |
| Eotaxin | 1 | 33.07 (21.66, 56.67) | 33.83 (20.88, 42.74) | 0.450 |
|  | 2 | 26.53 (21.11, 51.52) | 28.27 (22.22, 44.09) | 0.940 |
|  | 3 | 34.03 (24.40, 52.48) | 29.84 (23.59, 50.95) | 0.705 |
| TIMP1\* | 1 | 155443 (144102, 214105) | 253372 (111386, 319145) | 0.338 |
|  | 2 | 153028 (114500, 311985) | 229285 (170936, 344378) | 0.338 |
|  | 3 | 156635 (117259, 250536) | 183187 (96175, 386237) | 0.749 |
| TIMP2\* | 1 | 48792 (40235, 58959) | 38938 (35668, 61764) | 0.565 |
|  | 2 | 50594 (43548, 58128) | 46829 (37945, 62245) | 0.949 |
|  | 3 | 54095 (40860, 59114) | 48288 (40192, 61677) | 0.949 |

Data are presented as medians (IQRs) with analyte concentration in pg/ml. Analytes are ordered from most to least significant on day 3. \* TIMP data were only collected for n=7/group.