**Supplemental Table 1: Deviation from the average trajectory controlling for the level of care and virus variant.** Results from mixed-effects regression analyses for each physiologic variable to account for the repetition of measurements over time for each patient. The model controls for the level of care modeled as a categorical variable ICU vs nonICU and the effect of the virus variant as a categorical variable Alpha vs Delta. The covariance of the data is estimated from the time-series of residuals obtained after removing the moving average of the data as a non-parametric model of the mean response over time.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Intercept** | | **ICU (ref: NonICU)** | | **Delta (ref: Alpha)** | |
| **Variables** | **Estimate** | **p-value** | **Estimate** | **p-value** | **Estimate** | **p-value** |
| **Coagulation** |  |  |  |  |  |  |
| Platelet, 10^3/uL | 37.25 | 0.021 | -15.43 | 0.406 | -6.78 | 0.734 |
| D Dimer, ug/mL FEU | -0.35 | 0.197 | 0.35 | 0.250 | 0.09 | 0.780 |
| PTT, sec | -6.22 | 0.036 | 5.63 | 0.080 | -1.61 | 0.599 |
| INR, | -0.07 | 0.009 | 0.07 | 0.024\* | -0.07 | 0.016\* |
| Prothrombin time, sec | -0.76 | 0.005 | 0.70 | 0.018\* | -0.58 | 0.043\* |
| Thrombin Time, sec | -3.11 | 0.367 | 3.42 | 0.358 | 0.55 | 0.876 |
| Fibrinogen, mg/d | 6.51 | 0.719 | 6.52 | 0.752 | -37.86 | 0.081 |
| **Inflammation** |  |  |  |  |  |  |
| C Reactive Protein, mg/dL | -1.44 | 0.038 | 1.89 | 0.017\* | -0.26 | 0.756 |
| Ferritin, ng/mL | -77.08 | 0.089 | 72.66 | 0.157 | 49.47 | 0.354 |
| Fibrinogen, mg/dL | 6.52 | 0.719 | 6.52 | 0.752 | -37.86 | 0.081 |
| **Cardiac** |  |  |  |  |  |  |
| BNP, pg/mL | -191.35 | <0.001 | 298.96 | <0.001\* | -79.86 | 0.190 |
| Troponin I, ng/mL | -0.11 | 0.086 | 0.15 | 0.039\* | 0.09 | 0.223 |
| LV EF, % | 2.85 | 0.007 | -4.31 | <0.001\* | -0.74 | 0.621 |
| **Innate immune activation** |  |  |  |  |  |  |
| WBC, 10^3/uL | -1.65 | 0.035 | 2.61 | 0.004\* | -2.23 | 0.020\* |
| Lymph#, 10^3/uL | 0.28 | 0.243 | 0.15 | 0.576 | -0.48 | 0.112 |
| Procalcitonin, ng/mL | -3.95 | 0.104 | 6.87 | 0.010\* | -4.43 | 0.099 |
| Segmented Neut, % | -7.27 | <0.001 | 6.20 | 0.007\* | 1.25 | 0.617 |
| **GI-Liver** |  |  |  |  |  |  |
| AST, U/L | 5.32 | 0.376 | -1.65 | 0.809 | -0.64 | 0.929 |
| ALT, U/L | 3.82 | 0.588 | 1.00 | 0.902 | 3.17 | 0.709 |
| GGT, U/L | -20.48 | 0.146 | 20.59 | 0.172 | 16.13 | 0.215 |
| Alkaline Phosphatase, U/L | 17.48 | 0.082 | -16.05 | 0.158 | 11.42 | 0.325 |
| Albumin, g/dL | 0.24 | <0.001 | -0.24 | <0.001\* | -0.04 | 0.610 |
| **Renal** |  |  |  |  |  |  |
| Sodium, mmol/L | -0.23 | 0.612 | 0.40 | 0.422 | -1.62 | 0.002\* |
| Potassium, mmol/L | 0.19 | 0.010 | -0.15 | 0.060 | 0.19 | 0.020\* |
| Magnesium, mg/dL | 0.03 | 0.442 | -0.02 | 0.686 | -0.03 | 0.433 |
| Phosphorus, mg/dL | 0.35 | 0.001 | -0.33 | 0.004\* | 0.20 | 0.050\* |
| BUN, mg/dL | -4.81 | <0.001 | 5.16 | <0.001\* | -0.22 | 0.887 |
| Creatinine, mg/dL | -0.10 | 0.065 | 0.11 | 0.056 | 0.02 | 0.752 |
| **Hematologic** |  |  |  |  |  |  |
| WBC, 10^3/uL | -1.65 | 0.035 | 2.61 | 0.004\* | -2.23 | 0.020\* |
| HGB, g/dL | 0.23 | 0.285 | -0.35 | 0.147 | 0.45 | 0.085 |
| HCT, % | 1.03 | 0.094 | -1.32 | 0.061 | 1.09 | 0.151 |
| Platelet, 10^3/uL | 37.26 | 0.021 | -15.44 | 0.405 | -6.76 | 0.734 |
| RBC, 10^6/uL | 0.23 | 0.005 | -0.31 | <0.001\* | 0.17 | 0.079 |
| MCH, pg | -1.22 | <0.001 | 1.29 | <0.001\* | 0.01 | 0.979 |
| MCV, fL | -2.66 | <0.001 | 3.21 | <0.001\* | -0.78 | 0.422 |
| MCHC, g/dL | -0.46 | 0.011 | 0.38 | 0.069 | 0.31 | 0.166 |
| **Vital signs** |  |  |  |  |  |  |
| HR, bpm | -0.83 | 0.775 | 2.15 | 0.504 | -6.87 | 0.032\* |
| RR, brpm | 0.57 | 0.663 | -0.13 | 0.929 | -0.05 | 0.974 |
| SpO2, % | 0.03 | 0.858 | 0.12 | 0.583 | -0.21 | 0.312 |
| mBP, mmHg | 1.17 | 0.303 | -1.30 | 0.296 | -0.89 | 0.461 |
| sBP, mmHg | 1.77 | 0.279 | -2.42 | 0.182 | -1.38 | 0.435 |
| dBP, mmHg | 1.08 | 0.241 | -1.17 | 0.247 | -0.49 | 0.614 |
| PP, mmHg | 0.59 | 0.615 | -1.08 | 0.405 | -0.76 | 0.549 |

\* asterisk denotes the adjusted statistical significance according to the Holm-Bonferroni method to account for multiple outcomes measures to ensure that the family-wise type I error rate is < 0.05.