**Supplemental Digital Content 4. Comparison of preoperative and postoperative lab values between COVID+ and non-COVID groups**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***Preoperative*** | | | | ***Postoperative*** | | | |
|  | ***COVID+*** | ***Non-COVID*** | **P value** | **Cohen’s D** | ***COVID+*** | ***Non-COVID*** | **P value** | **Cohen’s D** |
| ***General Chemistry*** |  |  |  |  |  |  |  |  |
| Sodium [135 - 145 mmol/l] | 136.44±4.3 | 137.59±3.6 | 0.47 | -0.31 | 135.86±6.5 | 136.51±3.6 | 0.80 | -0.16 |
| Potassium [3.5 - 5.1 mmol/l] | 4.58±1.3 | 4.37±0.4 | 0.64 | 0.33 | 4.09±0.4 | 4.17±0.5 | 0.63 | -0.19 |
| Chloride [98 - 107 mmol/l] | 99.33±8.2 | 102.02±3.7 | 0.36 | -0.58 | 103±5.5 | 101.89±3.8 | 0.62 | 0.27 |
| Carbon dioxide [20 - 30 mmol/l] | 25±3.3 | 25.29±3.1 | 0.81 | -0.09 | 25.71±4.2 | 27.53±3.1 | 0.31 | -0.56 |
| Blood urea nitrogen [5 - 25 mg/dl] | 28.16±22.7 | 25.62±13 | 0.75 | 0.17 | 25.63±15.5 | 24.5±10.1 | 0.86 | 0.10 |
| Creatinine [0.4 - 1.2 mg/dl] | 2.52±5 | 0.92±0.4 | 0.36 | 0.82 | 0.87±0.3 | 0.98±0.7 | 0.45 | -0.17 |
| Calcium [8.5 - 10.5 mg/dl] | 8.99±0.6 | 9.21±0.5 | 0.31 | -0.42 | 8.3±0.5 | 8.55±0.4 | 0.23 | -0.55 |
| Protein [6.0 - 8.0 gm/dl] | 6.35±0.6 | 6.51±0.5 | 0.57 | -0.31 | 5.25±0.5 | 4.93±1.1 | 0.57 | 0.31 |
| Albumin [3.5 - 5.0 gm/dl] | 3.85±0.5 | 3.9±0.5 | 0.83 | -0.11 | 2.9±0.1 | 2.91±0.6 | 0.96 | -0.02 |
| Albumin/Globulin Ratio [1.0 - 2.0] | 1.54±0.2 | 1.56±0.4 | 0.87 | -0.06 | 1.25±0.1 | 1.3±0.4 | 0.79 | -0.13 |
| Aspartate aminotransferase [5 - 40 unit/l] | 51.17±55.5 | 34.6±19 | 0.50 | 0.61 | 48±26.9 | 42.38±21.2 | 0.82 | 0.27 |
| Glomerular filtration rate | 75.43±18.2 | 70.06±23.7 | 0.51 | 0.24 | 78.83±22.2 | 68.88±19 | 0.34 | 0.51 |
| Glucose [70 - 105 mg/dl] | 126.33±37.8 | 136.14±42.3 | 0.50 | -0.24 | 108±32.1 | 120.95±39.2 | 0.36 | -0.34 |
| ***General Hematology*** |  |  |  |  |  |  |  |  |
| White blood cells [3.7 - 11.7 /nl] | 8.94±3.22 | 11.34±4.39 | 0.07 | -0.56 | 8.31±2.54 | 9.81±3.27 | 0.23 | -0.47 |
| Red blood cells [3.85 - 5.78 /pl] | 3.53±0.58 | 3.83±0.71 | 0.21 | -0.43 | 3.52±1.06 | 3.35±1.12 | 0.71 | 0.15 |
| Nucleated red blood cells [<=0 /100 WBCs] | 0±0 | 0.02±0.14 | 0.24 | -0.18 | 0.52±1.36 | 0±0.02 | 0.36 | 1.04 |
| Hemoglobin [12.0 - 17.2 g/dL] | 11.03±2.01 | 11.36±2.07 | 0.66 | -0.16 | 9.46±1.09 | 9.54±1.29 | 0.86 | -0.06 |
| Hematocrit [34.8 - 50.9 %] | 34.06±6.33 | 35.01±6.33 | 0.68 | -0.15 | 29.13±3.65 | 29.16±3.93 | 0.98 | -0.01 |
| Mean platelet volume [6.1 - 9.1 fL] | 10.52±0.75 | 10.51±1.38 | 0.98 | 0.01 | 10.41±0.94 | 10.8±1.47 | 0.37 | -0.27 |
| Mean corpuscular volume [78.5 - 96.4 fL] | 91.73±5.4 | 91.61±6.16 | 0.95 | 0.02 | 91.03±5.75 | 91.23±5.81 | 0.93 | -0.03 |
| Mean corpuscular hemoglobin [26.4 - 33.2 pg] | 29.73±1.95 | 29.94±2.49 | 0.79 | -0.08 | 32.39±0.7 | 32.46±1.1 | 0.81 | -0.07 |
| Mean corpuscular hemoglobin concentration [31.8 - 36.7 gm/dL] | 32.39±0.7 | 32.46±1.1 | 0.81 | -0.07 | 32.53±1.11 | 32.79±1.07 | 0.58 | -0.24 |
| Red cell distribution width [11.3 - 14.7 %] | 14.52±1.49 | 13.63±2.39 | 0.16 | 0.39 | 14.61±1.58 | 13.84±2.67 | 0.30 | 0.30 |
| Platelets [172 - 440 /nl] | 196.33±56.58 | 213.04±83.75 | 0.46 | -0.21 | 199.57±47.53 | 181±75.05 | 0.40 | 0.26 |
| Neutrophils (rel) [39.6 - 78.4 %] | 80.64±5.85 | 79.71±8.87 | 0.72 | 0.11 | 78.84±5.17 | 73±8.97 | 0.07 | 0.67 |
| Lymphocytes (rel) [14.1 - 52.8 %] | 8.94±2.65 | 11.07±6.21 | 0.13 | -0.36 | 13.52±4.31 | 13.64±6.28 | 0.96 | -0.02 |
| Monocytes (rel) [2.7 - 9.2 %] | 7.71±5.89 | 7.21±3.14 | 0.83 | 0.14 | 6.42±2.18 | 10.08±3.18 | **0.01** | -1.12 |
| Eosinophils (rel) [0.3 - 7.2 %] | 0.3±0.21 | 1.27±1.82 | **<0.01** | -0.56 | 0.5±0.52 | 2.4±2.86 | **<0.01** | -0.69 |
| Basophils (rel) [0.2 - 1.3 %] | 0.25±0.14 | 0.37±0.27 | 0.10 | -0.48 | 0.16±0.05 | 0.37±0.26 | **<0.01** | -0.82 |
| Immature Granulocytes [0.2 - 5 %] | 0.6±0.34 | 0.54±0.25 | 0.69 | 0.23 | 0.56±0.29 | 0.59±0.34 | 0.84 | -0.09 |
| PMN (abs) [1.9 - 7.9 /nl] | 7.48±3.04 | 8.94±4.17 | 0.32 | -0.36 | 6.46±2.34 | 6.66±2.31 | 0.86 | -0.09 |
| Lymphocytes (abs) [1.1 - 3.6 /nl] | 0.81±0.16 | 1.03±0.43 | **0.03** | -0.53 | 1.1±0.53 | 1.19±0.49 | 0.73 | -0.19 |
| Monocytes (abs) [0.2 - 0.7 /nl] | 0.66±0.25 | 0.78±0.4 | 0.35 | -0.31 | 0.52±0.23 | 0.93±0.39 | **0.01** | -1.05 |
| Eosinophils (abs) [0.0 - 0.4 /nl] | 0.01±0.02 | 0.1±0.14 | **<0.01** | -0.66 | 0.04±0.05 | 0.22±0.31 | **<0.01** | -0.60 |
| Basophils (abs) [0.0 - 0.1 /nl] | 0.01±0.01 | 0.02±0.04 | **0.02** | -0.55 | 0±0 | 0.03±0.04 | **<0.01** | -0.63 |
| ***Coagulants*** |  |  |  |  |  |  |  |  |
| Partial thromboplastin time [24.0 - 37.8 seconds] | 28.84±2.55 | 31.26±6.17 | 0.07 | -0.42 | 34.35±2.33 | 31.51±8.37 | 0.43 | 0.38 |
| Prothrombin time [9.5 - 13.4 seconds] | 12.41±0.92 | 14.96±14.12 | 0.24 | -0.20 | 12.65±0.64 | 13.74±2.21 | 0.23 | -0.53 |
| International normalized ratio [0.84 - 1.18] | 1.13±0.08 | 1.34±1.2 | 0.25 | -0.19 | 1.18±0.06 | 1.25±0.2 | 0.37 | -0.39 |

Rel: relative; Abs: absolute; P values <0.05 are bolded, demonstrating statistical significance. Postoperative labs are taken on postoperative day #2. In instances in which the patient was discharged earlier than postoperative day #2, labs are taken on postoperative day #1.