**Supplementary Table 1: Dynamic changes of various indicators**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Items** | **2-week** | ***P*-value\*** | **8-week** | ***P*-value\*** | **24-week** | ***P*-value\*** | *χ*2† | ***P*-value**† |
| LYMPH (×109/L) |  | 0.940 |  | 0.978 |  | 0.006 |  |  |
| Negative group | 1.690 (1.350~1.820） |  | 1.560 (1.280~1.880） |  | 1.495 (1.260~1.827） |  | 3.192 | 0.203 |
| Positive group | 1.650 (1.390~1.900） |  | 1.550 (1.305~1.910） |  | 1.295 (1.1275~1.530） |  | 37.192 | <0.001 |
| HGB (g/L) |  | 0.575 |  | 0.832 |  | 0.621 |  |  |
| Negative group | 137.200 (125.2~148.000） |  | 135.600 (122.800~148.000） |  | 134.850 (118.875~145.325） |  | 4.146 | 0.126 |
| Positive group | 135.000 (128.000~145.100） |  | 132.000(124.150~145.000） |  | 127.300(120.950~141.875） |  | 30.102 | <0.001 |
| WBC (×109/L) |  | 0.286 |  | 0.158 |  | 0.294 |  |  |
| Negative group | 5.500 (4.600~6.060) |  | 5.500 (4.900~6.700) |  | 5.370 (4.507~6.225) |  | 0.162 | 0.922 |
| Positive group | 5.160 (4.600~6.200) |  | 5.300 (4.500~6.272) |  | 4.900 (4.400~5.900) |  | 8.315 | 0.016 |
| NEUT (×109/L) |  | 0.505 |  | 0.164 |  | 0.858 |  |  |
| Negative group | 3.340 (2.590~4.000) |  | 3.385 (2.8625~4.090) |  | 3.335 (2.612~3.992) |  | 0.703 | 0.704 |
| Positive group | 3.110 (2.550~3.970) |  | 3.185 (2.615~3.835) |  | 3.280 (2.640~4.070) |  | 0.915 | 0.633 |
| IL-2 (pg/mL) |  | <0.001 |  | 0.786 |  | <0.001 |  |  |
| Negative group | 1.220 (1.040~1.570） |  | 1.950 (1.460~3.140） |  | 1.490 (1.305~2.160） |  | 10.111 | 0.006 |
| Positive group | 1.760 (1.710~1.760） |  | 2.030 (1.620~3.000） |  | 2.970 (2.540~3.450） |  | 34.239 | <0.001 |
| TNF-α (pg/mL) |  | 0.018 |  | 0.026 |  | <0.001 |  |  |
| Negative group | 2.010 (0.980~3.450） |  | 11.220 (5.610~19.270） |  | 3.860 (1.982~7.042） |  | 23.111 | <0.001 |
| Positive group | 3.230 (1.300~5.790） |  | 15.580 (13.220~21.930） |  | 10.330 (8.040~14.285） |  | 70.327 | <0.001 |
| INF-γ (pg/mL) |  | <0.001 |  | 0.302 |  | 0.003 |  |  |
| Negative group | 1.390 (1.390~5.510） |  | 17.320 (11.09~35.100） |  | 10.800 (2.260~13.017） |  | 26.333 | <0.001 |
| Positive group | 2.800 (2.300~7.900） |  | 24.720 (16.010~37.690） |  | 14.690 (9.500~18.845） |  | 56 | <0.001 |
| IL-4 (pg/mL) |  | 0.055 |  | 0.281 |  | 0.817 |  |  |
| Negative group | 0.690 (0.370~1.550） |  | 0.710 (0.702~0.710） |  | 1.040 (0.310~1.470） |  | <0.001 | 1.000 |
| Positive group | 0.370 (0.370~1.320） |  | 0.710 (0.710~0.710） |  | 0.735 (0.587~1.505） |  | 27.594 | <0.001 |
| IL-6 (pg/mL) |  | 0.111 |  | 0.546 |  | 0.021 |  |  |
| Negative group | 2.300 (1.350~4.420） |  | 4.200 (2.930~6.640） |  | 2.980 (1.930~4.202） |  | 12.333 | 0.002 |
| Positive group | 1.480 (1.480~2.790） |  | 4.360 (2.930~5.940） |  | 3.680 (3.085~6.195） |  | 38.327 | <0.001 |
| IL-10 (pg/mL) |  | 0.819 |  | 0.278 |  | 0.004 |  |  |
| Negative group | 0.620 (0.390~1.020） |  | 3.200 (2.120~3.980） |  | 2.275 (0.725~2.557） |  | 22.333 | <0.001 |
| Positive group | 0.350 (0.350~1.260） |  | 2.650 (1.800~3.420） |  | 2.760 (1.970~3.535） |  | 49.020 | <0.001 |

\*Inter-group comparation with Mann-Whitney *U* test; † the analysis of repeated measurement data with Friedman’s *M* test. LYMPH: Lymphocyte count; HGB: Concentration of hemoglobin; WBC: White blood cell count; NEUT: Neutrophil count; IL-2: Interleukin 2; TNF-α: Tumor necrosis factor α; IFN-γ: Interferon γ; IL-4: Interleukin 4; IL-6: Interleukin 6; IL-10: Interleukin 10.

**Supplementary Table 2: The comparison results at different time points within the same group**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test** | **Group** | **Time point** | **Time point** | ***Z*-value** | ***P*-value** |
| LYMPH | PG | 24-week | 8-week | 0.929 | <0.001 |
| 24-week | 2-week | 1.153 | <0.001 |
| 8-week | 2-week | 0.224 | 0.266 |
| HGB | PG | 24-week | 8-week | 0.700 | 0.001 |
| 24-week | 2-week | 1.133 | <0.001 |
| 8-week | 2-week | 0.433 | 0.040 |
| WBC | PG | 24-week | 8-week | 0.480 | 0.016 |
| 24-week | 2-week | 0.510 | 0.011 |
| 8-week | 2-week | 0.030 | 0.881 |
| IL2 | NG | 2-weeks | 24-weeks | -0.444 | 0.182 |
| 2-weeks | 8-weeks | -1.056 | 0.002 |
| 24-weeks | 8-weeks | 0.611 | 0.067 |
| PG | 2-weeks | 24-weeks | -1.147 | <0.001 |
| 2-weeks | 8-weeks | -0.647 | 0.001 |
| 8-weeks | 24-weeks | -0.5 | 0.012 |
| TNFα | NG | 2-weeks | 24-weeks | -1.111 | 0.001 |
| 2-weeks | 8-weeks | -1.556 | <0.001 |
| 24-weeks | 8-weeks | 0.444 | 0.182 |
| PG | 2-weeks | 24-weeks | -0.878 | <0.001 |
| 2-weeks | 8-weeks | -1.694 | <0.001 |
| 24-weeks | 8-weeks | 0.816 | <0.001 |
| INFγ | NG | 2-weeks | 24-weeks | -1.167 | <0.001 |
| 2-weeks | 8-weeks | -1.667 | <0.001 |
| 24-weeks | 8-weeks | 0.5 | 0.134 |
| PG | 2-weeks | 24-weeks | -0.694 | 0.001 |
| 2-weeks | 8-weeks | -1.51 | <0.001 |
| 24-weeks | 8-weeks | 0.816 | <0.001 |
| IL-4 | PG | 2-weeks | 8-weeks | -0.723 | <0.001 |
| 2-weeks | 24-weeks | -0.846 | <0.001 |
| 8-weeks | 24-weeks | -0.123 | 0.483 |
| IL6 | NG | 2-weeks | 24-weeks | -0.667 | 0.046 |
| 2-weeks | 8-weeks | -1.167 | <0.001 |
| 24-weeks | 8-weeks | 0.5 | 0.134 |
| PG | 2-weeks | 24-weeks | -0.98 | <0.001 |
| 2-weeks | 8-weeks | -1.163 | <0.001 |
| 24-weeks | 8-weeks | 0.184 | 0.363 |
| IL10 | NG | 2-weeks | 24-weeks | -1.167 | <0.001 |
| 2-weeks | 8-weeks | -1.5 | <0.001 |
| 24-weeks | 8-weeks | 0.333 | 0.317 |
| PG | 2-weeks | 24-weeks | -1.204 | <0.001 |
| 2-weeks | 8-weeks | -1.245 | <0.001 |
| 24-weeks | 8-weeks | 0.041 | 0.840 |

Multiple comparison after Friedman's M test calculation (q test). LYMPH: Lymphocyte count; HGB: Concentration of hemoglobin; WBC: White blood cell count; NEUT: Neutrophil count; IL-2:Interleukin 2; TNF-α: Tumor necrosis factor α; IFN-γ: Interferon γ; IL-4:Interleukin 4; IL-6:Interleukin 6; IL-10:Interleukin 10; NG: Negative group; PG: Positive group. *P*-value less than 0.05 represents statistically significant difference.