

**SUPPLEMENTAL DIGITAL CONTENT TABLE 1.** Model Estimation Coefficients for Markers at T24 -- YOUNG vs OLD Plasma Age (Abbreviations – Injury Severity Score, Injury Severity Score; interleukin, IL; monocyte chemoattractant protein, MCP-1; INF-gamma, MIG; granulocyte-macrophage colony-stimulating factor, GM-CSF; and tumor necrosing factor- $\alpha$ , TNF- $\alpha$ ; histone-complexed DNA, hcDNA; human S100 calcium-binding protein A10, S100A10; soluble urokinase receptor, suPAR; thrombomodulin, TM; vascular endothelial growth factor, VEGF.)

| Cytokine    | Plasma Group (N=137) |                         |             |         | ISS >30 Plasma Subgroup (N=56) |                         |             |         |
|-------------|----------------------|-------------------------|-------------|---------|--------------------------------|-------------------------|-------------|---------|
|             | Coefficient          | 95% Confidence Interval |             | P-value | Coefficient                    | 95% Confidence Interval |             | P-value |
|             |                      | Lower limit             | Upper limit |         |                                | Lower limit             | Upper limit |         |
| IL-1b       | -0.517               | -5.362                  | 4.327       | 0.834   | -4.719                         | -22.878                 | 13.44       | 0.611   |
| IL-2        | -1.134               | -3.043                  | 0.774       | 0.244   | -2.6                           | -6.947                  | 1.747       | 0.241   |
| IL-4        | -25.871              | -61.123                 | 9.38        | 0.15    | -2.839                         | -74.05                  | 68.373      | 0.938   |
| IL-5        | -6.781               | -19.317                 | 5.756       | 0.289   | -0.748                         | -4.526                  | 3.03        | 0.698   |
| IL-6        | 42.046               | -192.469                | 276.56      | 0.725   | 66.918                         | -822.338                | 956.174     | 0.883   |
| IL-7        | 0.204                | -7.25                   | 7.657       | 0.957   | 0.943                          | -14.577                 | 16.464      | 0.905   |
| IL-8        | 1.759                | -259.477                | 262.995     | 0.989   | -323.937                       | -1473.439               | 825.564     | 0.581   |
| IL-9        | -6.152               | -28.021                 | 15.717      | 0.581   | -4.808                         | -65.963                 | 56.347      | 0.878   |
| IL-10       | 22.686               | -614.546                | 659.919     | 0.944   | -657.061                       | -3665.27                | 2351.148    | 0.669   |
| IL-17a      | -1.727               | -7.53                   | 4.075       | 0.56    | -5.693                         | -18.253                 | 6.866       | 0.374   |
| IL-17e      | -7.647               | -107.4                  | 92.105      | 0.881   | 47.906                         | -196.081                | 291.894     | 0.7     |
| IL-21       | -9.309               | -40.971                 | 22.352      | 0.564   | 2.292                          | -63.575                 | 68.158      | 0.946   |
| IL-22       | -59.194              | -370.766                | 252.378     | 0.71    | -52.622                        | -690.97                 | 585.726     | 0.872   |
| IL-23       | -2.851               | -10.741                 | 5.039       | 0.479   | -0.828                         | -16.632                 | 14.976      | 0.918   |
| IL-27       | -386.445             | -894.424                | 121.533     | 0.136   | -48.163                        | -1054.449               | 958.124     | 0.925   |
| IL-33       | -10.224              | -59.589                 | 39.14       | 0.685   | 10.712                         | -93.264                 | 114.687     | 0.84    |
| GM-CSF      | -7.26                | -25.076                 | 10.556      | 0.424   | -13.275                        | -73.434                 | 46.885      | 0.665   |
| MCP-1       | -88.915              | -468.568                | 290.738     | 0.646   | -680.88                        | -1756.67                | 394.91      | 0.215   |
| MIG         | -296.648             | -1988.797               | 1395.502    | 0.731   | -1024.548                      | -4825.08                | 2775.984    | 0.597   |
| TNF-a       | -3.571               | -19.078                 | 11.936      | 0.652   | -18.551                        | -72.744                 | 35.642      | 0.502   |
| Adiponectin | -425.327             | -2077.817               | 1227.163    | 0.614   | 91.731                         | -1726.412               | 1909.875    | 0.921   |
| hcDNA       | -4.605               | -11.944                 | 2.734       | 0.219   | -2.824                         | -12.397                 | 6.749       | 0.563   |
| S100A10     | -0.109               | -0.737                  | 0.52        | 0.735   | 0.228                          | -0.303                  | 0.758       | 0.4     |
| suPAR       | -0.94                | -1.899                  | 0.02        | 0.055   | -1.908                         | -4.331                  | 0.515       | 0.123   |

|            |        |          |         |       |          |          |         |       |
|------------|--------|----------|---------|-------|----------|----------|---------|-------|
| Syndecan-1 | 1.636  | -25.868  | 29.14   | 0.907 | -53.093  | -92.789  | -13.397 | 0.009 |
| TM         | -0.586 | -2.337   | 1.166   | 0.512 | -2.136   | -4.954   | 0.683   | 0.138 |
| VEGF       | 0.877  | -166.772 | 168.526 | 0.992 | -157.119 | -430.232 | 115.993 | 0.26  |