|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Supplementary Table 6: Result of pairwise comparisons between the AIS grades on the hematological data from the Murnau study.** | | | | |
| **Hematological marker** | **Effect** | **p- value** | **Adjusted p- value** |
| Amylase | | | | |
| AIS score\* (AIS) A – AIS B | -26.857 | 1.32E-02 | 6.03E-02 |
| AIS A – AIS C | -17.475 | 0.102 | 0.350 |
| AIS A – AIS D | -24.414 | 8.91E-04 | **4.72E-03** |
| AIS B – AIS C | 9.382 | 0.484 | 0.894 |
| AIS B – AIS D | 2.443 | 0.823 | 0.996 |
| AIS C – AIS D | -6.939 | 0.516 | 0.913 |
| Alkaline phosphatase | | | | |
| AIS A – AIS B | -16.577 | 0.535 | 0.923 |
| AIS A – AIS C | 2.182 | 0.934 | 1 |
| AIS A – AIS D | -4.171 | 0.812 | 0.995 |
| AIS B – AIS C | 18.76 | 0.568 | 0.939 |
| AIS B – AIS D | 12.406 | 0.636 | 0.964 |
| AIS C – AIS D | -6.354 | 0.806 | 0.995 |
| Calcium | | | | |
| AIS A – AIS B | 0.02 | 0.406 | 0.834 |
| AIS A – AIS C | 0.014 | 0.564 | 0.937 |
| AIS A – AIS D | 0.082 | 1.69E-07 | **6.46E-07** |
| AIS B – AIS C | -0.006 | 0.831 | 0.996 |
| AIS B – AIS D | 0.062 | 8.12E-03 | **3.86E-02** |
| AIS C – AIS D | 0.069 | 2.91E-03 | **1.47E-02** |
| Cholinesterase | | | | |
| AIS A – AIS B | 546.77 | 6.26E-02 | 0.236 |
| AIS A – AIS C | 807.203 | 5.07E-03 | **2.53E-02** |
| AIS A – AIS D | 1440.437 | 3.13E-14 | **9.19E-14** |
| AIS B – AIS C | 260.433 | 0.468 | 0.883 |
| AIS B – AIS D | 893.667 | 1.82E-03 | **9.11E-03** |
| AIS C – AIS D | 633.234 | 2.32E-02 | 0.100 |
| Creatinine | | | | |
| AIS A – AIS B | 0.014 | 0.746 | 0.988 |
| AIS A – AIS C | 0.031 | 0.472 | 0.886 |
| AIS A – AIS D | 0.062 | 2.87E-02 | 0.121 |
| AIS B – AIS C | 0.017 | 0.757 | 0.989 |
| AIS B – AIS D | 0.048 | 0.263 | 0.669 |
| AIS C – AIS D | 0.031 | 0.449 | 0.869 |
| CRP | | | | |
| AIS A – AIS B | -1.489 | 3.99E-02 | 0.161 |
| AIS A – AIS C | -1.865 | 9.23E-03 | **4.29E-02** |
| AIS A – AIS D | -2.383 | 7.64E-07 | **2.80E-06** |
| AIS B – AIS C | -0.377 | 0.674 | 0.974 |
| AIS B – AIS D | -0.894 | 0.214 | 0.590 |
| AIS C – AIS D | -0.518 | 0.463 | 0.879 |
| Erythrocytes | | | | |
| AIS A – AIS B | 0.229 | 3.64E-02 | 0.149 |
| AIS A – AIS C | 0.354 | 9.34E-04 | **4.83E-03** |
| AIS A – AIS D | 0.554 | 4.88E-15 | **1.50E-14** |
| AIS B – AIS C | 0.125 | 0.350 | 0.779 |
| AIS B – AIS D | 0.325 | 2.37E-03 | **1.23E-02** |
| AIS C – AIS D | 0.201 | 5.30E-02 | 0.205 |
| Gamma GT | | | | |
| AIS A – AIS B | -31.059 | 0.352 | 0.781 |
| AIS A – AIS C | 47.576 | 0.146 | 0.454 |
| AIS A – AIS D | -52.699 | 1.52E-02 | 6.87E-02 |
| AIS B – AIS C | 78.635 | 5.41E-02 | 0.209 |
| AIS B – AIS D | -21.64 | 0.508 | 0.908 |
| AIS C – AIS D | -100.275 | 1.63E-03 | **8.22E-03** |
| Bilirubin | | | | |
| AIS A – AIS B | -0.115 | 0.217 | 0.596 |
| AIS A – AIS C | 0.028 | 0.772 | 0.991 |
| AIS A – AIS D | -0.001 | 0.991 | 1 |
| AIS B – AIS C | 0.143 | 0.223 | 0.605 |
| AIS B – AIS D | 0.114 | 0.212 | 0.586 |
| AIS C – AIS D | -0.029 | 0.762 | 0.990 |
| Total proteins | | | | |
| AIS A – AIS B | 0.191 | 0.122 | 0.398 |
| AIS A – AIS C | 0.335 | 5.57E-03 | **2.66E-02** |
| AIS A – AIS D | 0.521 | 1.01E-10 | **3.31E-10** |
| AIS B – AIS C | 0.144 | 0.342 | 0.771 |
| AIS B – AIS D | 0.33 | 6.79E-03 | **3.23E-02** |
| AIS C – AIS D | 0.186 | 0.116 | 0.384 |
| Glucose | | | | |
| AIS A – AIS B | 0.349 | 0.480 | 0.891 |
| AIS A – AIS C | 0.487 | 0.337 | 0.765 |
| AIS A – AIS D | 0.478 | 0.151 | 0.467 |
| AIS B – AIS C | 0.138 | 0.826 | 0.996 |
| AIS B – AIS D | 0.129 | 0.793 | 0.993 |
| AIS C – AIS D | -0.009 | 0.986 | 1 |
| Blood urea | | | | |
| AIS A – AIS B | 0.233 | 0.538 | 0.924 |
| AIS A – AIS C | 0.398 | 0.285 | 0.699 |
| AIS A – AIS D | -0.138 | 0.578 | 0.943 |
| AIS B – AIS C | 0.165 | 0.722 | 0.984 |
| AIS B – AIS D | -0.371 | 0.319 | 0.744 |
| AIS C – AIS D | -0.536 | 0.140 | 0.442 |
| Hemoglobin | | | | |
| AIS A – AIS B | 0.576 | 9.04E-02 | 0.317 |
| AIS A – AIS C | 1.105 | 8.83E-04 | **4.52E-03** |
| AIS A – AIS D | 1.782 | 4.44E-16 | **1.67E-15** |
| AIS B – AIS C | 0.529 | 0.203 | 0.569 |
| AIS B – AIS D | 1.206 | 2.88E-04 | **1.46E-03** |
| AIS C – AIS D | 0.678 | 3.54E-02 | 0.145 |
| Hemoglobin per erythrocyte | | | | |
| AIS A – AIS B | -0.164 | 0.629 | 0.961 |
| AIS A – AIS C | 0.06 | 0.854 | 0.998 |
| AIS A – AIS D | 0.203 | 0.347 | 0.776 |
| AIS B – AIS C | 0.225 | 0.586 | 0.946 |
| AIS B – AIS D | 0.367 | 0.271 | 0.679 |
| AIS C – AIS D | 0.142 | 0.654 | 0.969 |
| Hematocrit | | | | |
| AIS A – AIS B | 1.884 | 4.48E-02 | 0.178 |
| AIS A – AIS C | 2.974 | 1.19E-03 | **6.19E-03** |
| AIS A – AIS D | 4.883 | 1.11E-15 | **3.00E-15** |
| AIS B – AIS C | 1.09 | 0.342 | 0.770 |
| AIS B – AIS D | 2.999 | 1.10E-03 | **5.43E-03** |
| AIS C – AIS D | 1.909 | 3.20E-02 | 0.133 |
| INR | | | | |
| AIS A – AIS B | 0.016 | 4.48E-02 | 0.178 |
| AIS A – AIS C | -0.034 | 1.19E-03 | **6.19E-03** |
| AIS A – AIS D | -0.034 | 1.11E-15 | **3.00E-15** |
| AIS B – AIS C | -0.05 | 0.342 | 0.770 |
| AIS B – AIS D | -0.05 | 1.10E-03 | **5.43E-03** |
| AIS C – AIS D | 0 | 3.20E-02 | 0.133 |
| Potassium | | | | |
| AIS A – AIS B | -0.043 | 0.328 | 0.754 |
| AIS A – AIS C | 0.022 | 0.619 | 0.958 |
| AIS A – AIS D | -0.052 | 7.74E-02 | 0.281 |
| AIS B – AIS C | 0.065 | 0.234 | 0.623 |
| AIS B – AIS D | -0.009 | 0.841 | 0.997 |
| AIS C – AIS D | -0.074 | 8.67E-02 | 0.307 |
| Lactate dehydrogenase | | | | |
| AIS A – AIS B | -0.461 | 0.974 | 1 |
| AIS A – AIS C | -28.972 | 3.86E-02 | 0.157 |
| AIS A – AIS D | -19.426 | 4.17E-02 | 0.168 |
| AIS B – AIS C | -28.511 | 0.103 | 0.351 |
| AIS B – AIS D | -18.965 | 0.180 | 0.527 |
| AIS C – AIS D | 9.546 | 0.490 | 0.898 |
| Leucocytes | | | | |
| AIS A – AIS B | -0.132 | 0.794 | 0.994 |
| AIS A – AIS C | -0.949 | 5.55E-02 | 0.214 |
| AIS A – AIS D | -0.278 | 0.402 | 0.831 |
| AIS B – AIS C | -0.817 | 0.187 | 0.54 |
| AIS B – AIS D | -0.146 | 0.770 | 0.991 |
| AIS C – AIS D | 0.672 | 0.165 | 0.496 |
| Lipase | | | | |
| AIS A – AIS B | -14.877 | 0.158 | 0.482 |
| AIS A – AIS C | -4.11 | 0.697 | 0.979 |
| AIS A – AIS D | -14.727 | 4.26E-02 | 0.171 |
| AIS B – AIS C | 10.767 | 0.412 | 0.840 |
| AIS B – AIS D | 0.15 | 0.989 | 1 |
| AIS C – AIS D | -10.618 | 0.313 | 0.738 |
| MCHC | | | | |
| AIS A – AIS B | -0.182 | 0.421 | 0.847 |
| AIS A – AIS C | 0.259 | 0.238 | 0.630 |
| AIS A – AIS D | 0.362 | 1.28E-02 | 5.85E-02 |
| AIS B – AIS C | 0.441 | 0.108 | 0.365 |
| AIS B – AIS D | 0.544 | 1.35E-02 | 6.15E-02 |
| AIS C – AIS D | 0.103 | 0.630 | 0.962 |
| MCV | | | | |
| AIS A – AIS B | -0.549 | 0.506 | 0.906 |
| AIS A – AIS C | -0.32 | 0.690 | 0.978 |
| AIS A – AIS D | -0.366 | 0.488 | 0.896 |
| AIS B – AIS C | 0.229 | 0.819 | 0.996 |
| AIS B – AIS D | 0.183 | 0.819 | 0.996 |
| AIS C – AIS D | -0.046 | 0.953 | 1 |
| Sodium | | | | |
| AIS A – AIS B | 0.954 | 0.141 | 0.443 |
| AIS A – AIS C | 0.424 | 0.504 | 0.906 |
| AIS A – AIS D | 0.841 | 4.72E-02 | 0.186 |
| AIS B – AIS C | -0.529 | 0.505 | 0.906 |
| AIS B – AIS D | -0.113 | 0.860 | 0.998 |
| AIS C – AIS D | 0.417 | 0.501 | 0.904 |
| Prothrombin time | | | | |
| AIS A – AIS B | -2.176 | 2.10E-02 | 9.18E-02 |
| AIS A – AIS C | -1.595 | 8.54E-02 | 0.303 |
| AIS A – AIS D | -2.245 | 2.71E-04 | **1.34E-03** |
| AIS B – AIS C | 0.581 | 0.615 | 0.957 |
| AIS B – AIS D | -0.069 | 0.941 | 1 |
| AIS C – AIS D | -0.65 | 0.472 | 0.885 |
| Quick test | | | | |
| AIS A – AIS B | 0.856 | 0.756 | 0.989 |
| AIS A – AIS C | 5.303 | 4.91E-02 | 0.192 |
| AIS A – AIS D | 6.697 | 1.75E-04 | **9.35E-04** |
| AIS B – AIS C | 4.447 | 0.186 | 0.537 |
| AIS B – AIS D | 5.841 | 2.99E-02 | 0.125 |
| AIS C – AIS D | 1.394 | 0.594 | 0.949 |
| Thrombocytes | | | | |
| AIS A – AIS B | -48.277 | 7.22E-02 | 0.265 |
| AIS A – AIS C | -83.26 | 1.58E-03 | **8.09E-03** |
| AIS A – AIS D | -50.045 | 4.50E-03 | **2.21E-02** |
| AIS B – AIS C | -34.984 | 0.288 | 0.704 |
| AIS B – AIS D | -1.769 | 0.947 | 1 |
| AIS C – AIS D | 33.215 | 0.197 | 0.559 |
| ASAT | | | | |
| AIS A – AIS B | -3.803 | 0.640 | 0.965 |
| AIS A – AIS C | -9.197 | 0.257 | 0.661 |
| AIS A – AIS D | -14.669 | 8.24E-03 | **3.94E-02** |
| AIS B – AIS C | -5.394 | 0.594 | 0.949 |
| AIS B – AIS D | -10.866 | 0.184 | 0.536 |
| AIS C – AIS D | -5.472 | 0.499 | 0.903 |
| ALAT | | | | |
| AIS A – AIS B | 3.103 | 0.786 | 0.993 |
| AIS A – AIS C | -4.967 | 0.659 | 0.970 |
| AIS A – AIS D | -17.915 | 1.83E-02 | 8.11E-02 |
| AIS B – AIS C | -8.071 | 0.566 | 0.938 |
| AIS B – AIS D | -21.019 | 6.34E-02 | 0.239 |
| AIS C – AIS D | -12.948 | 0.243 | 0.638 |

\*ASIA impairment scale: A, no sensory or motor function is preserved; B, sensory function is preserved below the level of the injury, but there is no motor function; C, motor function is preserved below the neurological level, and more than half of the key muscles below the neurological level have a muscle grade of <3; D, motor function is preserved below the neurological level, and at least half of the key muscles below the neurological level have a muscle grade of >3.

**Abbreviations:** CRP: C-reactive protein; Gamma GT: gamma-glutamyl transferase; INR: international normalised ratio; MCHC: mean corpuscular hemoglobin concentration; MCV: mean corpuscular volume; ASAT: aspartate aminotransferase; ALAT: alanine aminotransferase