**Supplemental Table 6. Poor Outcome according to Proportion of Time Spent in Transgression in tICP cohort**

\*Significant after Holm correction for multiple comparisons.

|  |  |  |
| --- | --- | --- |
| **Transgression****Parameter** | **Full Model Includes all Transgressions EXCEPT PbtO2, Temperature;****N=416** | **Final Model after Backward Selection, using α=0.05 as criteria for removal** |
|  | **p-value** | **OR (95% CI)** | **p-value** | **OR (95% CI)** |
| PaO2 | 0.3578 | 1.146 (0.510, 2.574) |  |  |
|  |  | 1.133 (0.497, 2.583) |  |  |
|  |  | 1.104 (0.465, 2.618) |  |  |
|  |  | 0.474 (0.179, 1.255) |  |  |
| Glucose (high) | 0.0214 | 1.176 (0.565, 2.446) | 0.0167\* | 1.060 (0.556, 2.019) |
|  |  | 0.921 (0.414, 2.049) |  | 1.068 (0.540, 2.113) |
|  |  | 2.364 (1.037, 5.391) |  | 1.811 (0.908, 3.610) |
|  |  | 4.190 (1.520, 11.552) |  | 4.306 (1.722, 10.769) |
| Glucose (low) | 0.7923 | 0.677 (0.272, 1.686) |  |  |
|  |  | 1.229 (0.370, 4.080) |  |  |
|  |  | 1.688 (0.489, 5.831) |  |  |
|  |  | 0.863 (0.228, 3.268) |  |  |
| CPP | 0.3444 | 0.746 (0.306, 1.818) |  |  |
|  |  | 1.669 (0.650, 4.289) |  |  |
|  |  | 1.449 (0.529, 3.969) |  |  |
|  |  | 1.945 (0.580, 6.523) |  |  |
| INR | 0.1840 | 0.453 (0.149, 1.376) |  |  |
|  |  | 2.371 (0.792, 7.101) |  |  |
|  |  | 0.653 (0.207, 2.060) |  |  |
|  |  | 0.516 (0.146, 1.824) |  |  |
| Platelets | 0.2935 | 0.108 (0.013, 0.899) |  |  |
|  |  | 1.033 (0.131, 8.120) |  |  |
|  |  | 0.327 (0.034 (3.130) |  |  |
|  |  | >999 (<0.001, >999) |  |  |
| O2 | 0.0207 | 0.537 (0.239, 1.203) | 0.0180\* | 0.497 (0.243, 1.016) |
|  |  | 0.446 (0.176, 1.132) |  | 0.609 (0.271, 1.370) |
|  |  | 0.893 (0.356, 2.242) |  | 1.073 (0.487, 2.365) |
|  |  | 3.226 (1.143, 9.099) |  | 3.007 (1.228, 7.365) |
| Hemoglobin | 0.0294 | 1.094 (0.477, 2.507) |  |  |
|  |  | 1.368 (0.606, 3.089) |  |  |
|  |  | 2.063 (0.856, 4.972) |  |  |
|  |  | 6.008 (1.927, 18.733) |  |  |
| ICP | 0.1252 | 1.347 (0.588, 3.089) | 0.0075\* | 1.471 (0.710, 3.047) |
|  |  | 2.041 (0.828, 5.035) |  | 1.984 (0.938, 4.196) |
|  |  | 2.020 (0.796, 5.127) |  | 1.912 (0.915, 3.994) |
|  |  | 4.188 (1.407, 12.462) |  | 4.407 (1.979, 9.816) |
| MAP (65) | <0.0001\* | 0.555 (0.244, 1.263) | 0.0047\* | 0.783 (0.390, 1.5730 |
|  |  | 0.103 (0.040, 0.270) |  | 0.262 (0.124, 0.553) |
|  |  | 0.221 (0.078, 0.626) |  | 0.671 (0.311, 1.448) |
|  |  | 0.214 (0.069, 0.662) |  | 0.741 (0.320, 1.718) |
| PbtO2 |  |  |  |  |
| SBP (high) | 0.3541 | 1.380 (0.594, 3.208) |  |  |
|  |  | 0.909 (0.401, 2.064) |  |  |
|  |  | 0.512 (0.229, 1.143) |  |  |
|  |  | 0.806 (0.333, 1.952) |  |  |
| SBP (low, 90) | 0.1638 | 1.146 (0.532, 2.466) |  |  |
|  |  | 2.505 (1.075, 5.836) |  |  |
|  |  | 2.074 (0.854, 5.035) |  |  |
|  |  | 2.350 (0.829, 6.660) |  |  |
| Temp (high) |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Temp (low) |  |  |  |  |