**Appendix Table.** The adjusted odds ratios of ED variables predictive of crystalloid resuscitations at ED

|  |  |  |
| --- | --- | --- |
| **Variables** | **Univariate**  **Odds ratio (95% CI)** | **Multivariate**  **Adjusted odds ratio (95% CI)** |
| Total trauma patients |  |  |
| Age | 1.00 (1.00-1.01) | 1.00 (0.99-1.01) |
| Heart rate | 1.00 (0.99-1.00) | 0.99 (0.99-1.00) |
| Systolic blood pressure | 1.00 (0.99-1.00) | 1.00 (0.99-1.00) |
| Respiratory rate | 1.00 (0.98-1.02) | 0.98 (0.95-1.01) |
| RTS upon arrival | 1.04 (0.97-1.11) | 1.16 (0.82-1.66) |
| ISS upon arrival | 1.00 (0.99-1.01) | 1.01 (0.99-1.02) |
| GCS | 1.00 (0.97-1.04) | 0.94 (0.83-1.07) |
| Blood transfusion\* | 1.21 (1.06-1.37) | 1.17 (0.98-1.38) |
| Hemoglobin | 0.96 (0.89-1.03) | 0.96 (0.88-1.05) |
| Trauma patients admitted to ICU |  |  |
| Age | 0.99 (0.98 - 1.01) | 0.99 (0.97 - 1.01) |
| Heart rate | 1.00 (0.99 - 1.01) | 1.00 (0.98 - 1.01) |
| Systolic blood pressure\* | 0.99 (0.98 - 0.99) | 0.99 (0.97 - 1.00) |
| Respiratory rate | 0.98 (0.95 - 1.02) | 0.98 (0.94 - 1.02) |
| RTS upon arrival | 0.98 (0.85 - 1.13) | 1.06 (0.63 - 1.79) |
| ISS upon arrival | 1.01 (0.99 - 1.03) | 1.01 (0.98 - 1.03) |
| GCS | 1.02 (0.96 - 1.07) | 1.02 (0.84 - 1.24) |
| Blood transfusion | 0.98 (0.78 - 1.23) | 0.90 (0.69 - 1.18) |
| Hemoglobin | 0.89 (0.79 - 1.01) | 0.93 (0.81 - 1.06) |
| Trauma patients transferred to OR |  |  |
| Age\* | 1.01 (1.00 - 1.03) | 1.01 (0.99 - 1.02) |
| Heart rate | 0.99 (0.99 - 1.00) | 0.99 (0.98 - 1.00) |
| Systolic blood pressure | 1.00 (1.00 - 1.01) | 1.01 (1.00 - 1.03) |
| Respiratory rate | 1.00 (0.97 - 1.03) | 0.99 (0.94 - 1.04) |
| RTS upon arrival | 1.03 (0.93 - 1.13) | 0.86 (0.47 - 1.54) |
| ISS upon arrival | 1.01 (0.99 - 1.02) | 1.00 (0.98 - 1.02) |
| GCS | 0.99 (0.94 - 1.03) | 1.00 (0.82 - 1.23) |
| Blood transfusion\*\* | 1.38 (1.14 - 1.67) | 1.35 (1.06 - 1.73) |
| Hemoglobin | 0.98 (0.88 - 1.09) | 0.96 (0.85 - 1.08) |

Abbreviations: CI: confidence interval; ISS: injury severity score; RTS: revised trauma score; GCS: Glasgow coma scale; ICU: intensive care unit; OR: operating room.

\*Statistically significant in univariate analysis while no significant in multivariate analysis.

\*\*Statistically significant both in univariate and multivariate analysis.