**Supplemental Digital Content 1, Supplemental Table 1**. Multivariable logistic regression analysis, with hospital mortality as the dependent variable, for (a) plateau pressure; (b) compliance; and (c) PEEP.

1. **Plateau Pressure**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **aOR** | **95% CI** | ***P*-value** |
| Age | 1.03 | 1.02 - 1.03 | <0.001 |
| Chronic obstructive pulmonary disease | 0.73 | 0.54 - 0.99 | 0.046 |
| Body mass index | 0.98 | 0.97 - 0.99 | 0.026 |
| Lactate | 1.16 | 1.12 - 1.21 | <0.001 |
| APACHE II | 1.02 | 1.00 - 1.04 | 0.035 |
| Fluid balance first week | 1.01 | 1.00 - 1.02 | <0.001 |
| ED lung-protection group | 0.54 | 0.40 - 0.73 | <0.001 |
| Plateau pressure | 1.04 | 1.02 - 1.07 | 0.001 |

Removed from model for non-significance: cirrhosis (p = 0.53), sepsis (p= 0.39), arterial pH (0.57).

APACHE: acute physiology and chronic health evaluation; ED: emergency department

1. **Compliance**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **aOR** | **95% CI** | ***P*-value** |
| Age | 1.02 | 1.02 - 1.03 | <0.001 |
| Chronic obstructive pulmonary disease | 0.76 | 0.57 - 1.03 | 0.080 |
| Lactate | 1.16 | 1.12 - 1.21 | <0.001 |
| APACHE II | 1.03 | 1.01 - 1.05 | 0.007 |
| Fluid balance first week | 1.01 | 1.00 - 1.02 | <0.001 |
| ED lung-protection group | 0.50 | 0.38 - 0.68 | <0.001 |

Removed from model for non-significance: body mass index (p= 0.17), cirrhosis (p = 0.52), sepsis (p= 0.39), arterial pH (0.34), compliance (p= 0.25).

APACHE: acute physiology and chronic health evaluation; ED: emergency department

1. **PEEP**

|  |  |  |  |
| --- | --- | --- | --- |
| **Variables** | **aOR** | **95% CI** | ***P*-value** |
| Age | 1.02 | 1.02 - 1.03 | <0.001 |
| Body mass index | 0.99 | 0.97 - 1.001 | 0.078 |
| Lactate | 1.17 | 1.12 - 1.21 | <0.001 |
| APACHE II | 1.02 | 1.00 - 1.04 | 0.039 |
| Fluid balance first week | 1.01 | 1.00 - 1.02 | <0.001 |
| ED lung-protection group | 0.50 | 0.37 - 0.67 | <0.001 |
| PEEP | 1.11 | 1.01 - 1.21 | 0.023 |

Removed from model for non-significance: COPD (p= 0.12), cirrhosis (p= 0.56), sepsis (p= 0.39), arterial pH (p= 0.42).

APACHE: acute physiology and chronic health evaluation; ED: emergency department; PEEP: positive end-expiratory pressure