**Supplemental Digital Content 1, Supplemental Table 2**. Multivariable logistic regression analyses with plateau pressure, compliance, and PEEP added separately as covariates to driving pressure. Hospital mortality is the dependent variable.

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| **Variables** | **aOR** | **95% CI** | ***P*-value** |
| **Model 1** |
| 1. Age  | 1.03 | 1.02 - 1.03 | <0.001 |
| 2. Chronic obstructive pulmonary disease | 0.74 | 0.54 - 0.99 | 0.048 |
| 3. Body mass index | 0.99 | 0.97 - 1.00 | 0.047 |
| 4. Lactate | 1.16 | 1.12 - 1.21 | <0.001 |
| 5. APACHE II | 1.02 | 1.00 - 1.05 | 0.023 |
| 6. Fluid balance first week | 1.01 | 1.00 - 1.02 | <0.001 |
| 7. ED lung-protection as allocation group | 0.54 | 0.40 - 0.73 | <0.001 |
| Driving pressure | 1.04 | 1.01 - 1.07 | 0.006 |
| **Model 2** (including above variables 1-7) |
| Driving pressure | 0.95 | 0.87 - 1.04 | 0.290 |
| Plateau pressure | 1.04 | 1.02 - 1.07 | 0.001 |
| **Model 3** (including above variables 1-7) |  |  |  |
| Driving pressure | 1.07 | 1.03 - 1.12 | 0.002 |
| Compliance | 1.02 | 0.99 - 1.03 | 0.073 |
| **Model 4** (including above variables 1-7) |  |  |  |
| Driving pressure | 1.04 | 1.01 - 1.07 | 0.005 |
| PEEP | 1.11 | 1.02 - 1.22 | 0.018 |

Removed from model for non-significance- Model 1: cirrhosis (p = 0.51), sepsis (p= 0.41), arterial pH (0.50); Model 2: cirrhosis (p = 0.54); sepsis (p = 0.38), arterial pH (0.61); Model 3: cirrhosis (p = 0.56), sepsis (p = 0.54), arterial pH (0.56); Model 4: cirrhosis (p = 0.54), sepsis (p = 0.36), arterial pH (0.66).

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