**Supplemental Table 2.** Arterial blood gases at INITIAL and FINAL conditions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | |  | **INITIAL** | **FINAL** |
| pHa | PCVPEEP1.7cmH2O | | 7.38 ± 0.02 | 7.36 ± 0.02 |
| PCVPEEP0.6cmH2O | | 7.36 ± 0.02 | 7.38 ± 0.03 |
|  | EFT/EPF 75% | | 7.35 ± 0.04 | 7.38 ± 0.06 |
|  | EFT/EPF 25% | | 7.41 ± 0.03 | 7.36 ± 0.01 |
| PaO2 (mmHg) | PCVPEEP1.7cmH2O | | 172 ± 27 | 163 ± 17 |
| PCVPEEP0.6cmH2O | | 178 ± 19 | 173 ± 14 |
|  | EFT/EPF 75% | | 179 ± 33 | 175 ± 9 |
|  | EFT/EPF 25% | | 188 ± 12 | 175 ± 11 |
| PaCO2 (mmHg) | PCVPEEP1.7cmH2O | | 38 ± 2 | 41 ± 4 |
| PCVPEEP0.6cmH2O | | 39 ± 0 | 41 ± 4 |
|  | EFT/EPF 75% | | 35 ± 5 | 41 ± 7 |
|  | EFT/EPF 25% | | 33 ± 1 | 39 ± 4 |
| HCO3− (mEq/L) | PCVPEEP1.7cmH2O | | 22 ± 0 | 24 ± 1 |
| PCVPEEP0.6cmH2O | | 21 ± 1 | 23 ± 1 |
|  | EFT/EPF 75% | | 20 ± 1 | 23 ± 2 |
|  | EFT/EPF 25% | | 21 ± 1 | 22 ± 2 |

PCV-PEEP1.7cmH2O, pressure-controlled ventilation with PEEP similar to PERP achieved by EFT/EPF 75%; PCV-PEEP0.6cmH2O, pressure-controlled ventilation with PEEP similar to PERP achieved by EFT/EPF 25%. EFT/EPF 75%, personalized mechanical ventilation with EFT/EPF at 75%; EFT/EPF 25%, personalized mechanical ventilation with EFT/EPF at 25%. pHa, arterial pH; PaCO2, arterial partial pressure of carbon dioxide; PaO2, arterial partial pressure of oxygen; HCO3−, bicarbonate. Values are means ± standard deviation of 8 animals in each group. Comparisons were performed using two-way analysis of variance followed by Holm-Šídák’s multiple comparison tests (*P*<0.05).