**Supplemental Digital Content 11**

**Supplemental Table 5.** Respiratory parameters and blood gas analysis at Baseline

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|  | **Low-VT/Moderate-PEEP**  **RM-** | **Low-VT/Moderate-PEEP**  **4RM+** | **Low-VT/High-PEEP**  **RM-** | **Low-VT/High-PEEP**  **1RM+** |
| **VT (mL/kg)** | 6.8 ± 0.4 | 6.7 ± 0.2 | 6.6 ± 0.4 | 6.8 ± 0.3 |
| **RR (min-1)** | 51 ± 3 | 54 ± 7 | 54 ± 5 | 55 ± 10 |
| **Ppeak,RS (cmH2O)** | 11.4 ± 1.0 | 12.8 ± 1.7 | 11.2 ± 1.7 | 13.7 ± 3.84 |
| **Pmean,RS (cmH2O)** | 4.3 ± 0.4 | 4.9 ± 0. 7 | 4.5 ± 0.9 | 5.2 ± 1.3 |
| **pHa** | 7.4 ± 0.08 | 7.41 ± 0.03 | 7.41 ± 0.06 | 7.44 ± 0.03 |
| **PaCO2 (mmHg)** | 37.1 ± 11.8 | 38.1 ± 3.8 | 37.8 ± 8.6 | 32.0 ± 5.7 |
| **PaO2/FiO2** | 392 ± 60 | 278 ± 97 | 368 ± 82 | 255 ± 92 |
| **HCO3-(mmol/L)** | 22 ± 0.6 | 24.1 ±1.3 | 23.8 ± 2.3 | 22.7 ± 1.7 |
| **MAP (mmHg)** | 166 ± 11 | 129 ± 41 | 163 ± 23 | 118 ± 31 |

Values are mean ± standard deviation (SD) of seven rats in each group. Low-VT/Moderate-PEEP/RM-: VT = 7 mL/kg with PEEP = 3 cmH2O and no RMs; Low-VT/Moderate-PEEP/4RM+: VT = 7 mL/kg with PEEP = 3 cmH2O and RMs before laparotomy and every 1 hour thereafter; Low-VT/High-PEEP/RM-: VT = 7 mL/kg with PEEP = 6 cmH2O and no RMs; Low-VT/High-PEEP/1RM+: VT = 7 mL/kg with PEEP = 6 cmH2O and RMs before laparotomy. VT: tidal volume; RR: respiratory rate; Ppeak,RS: peak airway pressure; Pmean,RS: mean airway pressure; pHa: arterial pH; PaCO2: arterial carbon dioxide partial pressure; PaO2/FiO2: arterial oxygen partial pressure divided by fraction of inspired oxygen; HCO3: bicarbonate; MAP: mean arterial pressure.