Supplemental Digital Content 4. Blood withdrawal and resuscitation fluid variables

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| Variables | Control  N = 8 | Anti-TNF-α mAb  N = 9 | H2+ Anti-TNF-α mAb  N = 9 | *P* value |
| Body weight (g) | 331.9 ± 4.4 | 325.9 ± 3.7 | 326.1 ± 5.4 | 0.60 |
| Shed blood volume (mL) | 9.7 ± 0.3 | 10.0 ± 0.3 | 11.0 ± 0.2 † | 0.004 |
| Shed blood volume (mL/kg) | 29.2 ± 1.0 | 30.1 ± 0.8 | 33.7 ± 0.9 † | 0.007 |
| Resuscitation fluid volume (mL) | 29.1 ± 0.8 | 30.1 ± 0.8 \* | 32.9 ± 0.6 † | 0.004 |
| Resuscitation fluid volume (mL/kg) | 87.7 ± 2.9 | 92.5 ± 2.6 | 101.0 ± 2.6 \* | 0.007 |

\**P < 0.05*, vs control group; †*P < 0.01*, vs control group. mAb, monoclonal antibody; TNF-α, tumor necrosis factor-alfa.

Supplemental Digital Content 5. Arterial gas analysis at baseline

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| Variables | Control  N = 8 | Anti-TNF-α mAb  N = 9 | H2+ Anti-TNF-α mAb  N = 9 | *P* value |
| pH | 7.346 ± 0.007 \* | 7.372 ± 0.007 | 7.372 ± 0.007 | 0.01 |
| pCO2 (mmHg) | 48.1 ± 2.2 | 46.2 ± 1.5 | 46.6 ± 1.0 | 0.69 |
| pO2 (mmHg) | 77.5 ± 3.9 | 80.8 ± 2.9 | 81.7 ± 2.5 | 0.63 |
| HCO3- (mmol/L) | 27.6 ± 0.8 | 26.9 ± 0.8 | 28.2 ± 1.1 | 0.59 |
| B.E. (mEq/L) | 2.1 ± 1.0 | 1.6 ± 0.8 | 1.7 ± 0.7 | 0.88 |
| Potassium (mEq/L) | 4.79 ± 0.2 | 4.83 ± 0.2 | 5.06 ± 0.2 | 0.63 |
| Lactate (mmol/L) | 0.94 ± 0.05 | 0.91 ± 0.04 | 0.96 ± 0.03 | 0.74 |
| Hemoglobin (g/dL) | 14.0 ± 0.3 | 13.6 ± 0.3 | 13.8 ± 0.3 | 0.75 |

\**P = 0.03*, vs Anti-TNF-α mAb and H2+ Anti-TNF-α mAb group. B.E., Base excess; mAb, monoclonal antibody; TNF-α, tumor necrosis factor-alfa.

Supplemental Digital Content 6. Arterial gas analysis 60 min after shock induction

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| Variables | Control  N = 8 | Anti-TNF-α mAb  N = 9 | H2+ Anti-TNF-α mAb  N = 9 | *P* value |
| pH | 7.273 ± 0.02 | 7.257 ± 0.03 | 7.251 ± 0.02 | 0.94 |
| pCO2 (mmHg) | 27.1 ± 1.0 | 26.6 ± 2.0 | 24.7 ± 2.4 | 0.78 |
| pO2 (mmHg) | 135.5 ± 10.0 | 113.9 ± 2.1 | 118.8 ± 2.5 | 0.05 |
| HCO3- (mmol/L) | 12.7 ± 1.0 | 12.0 ± 1.5 | 11.2 ± 1.6 | 0.78 |
| B.E. (mEq/L) | -14.1 ± 1.3 | -15.4 ± 1.9 | -16.0 ± 1.9 | 0.75 |
| Potassium (mEq/L) | 6.18 ± 0.2 | 6.04 ± 0.2 | 6.09 ± 0.2 | 0.88 |
| Lactate (mmol/L) | 12.0 ± 1.5 | 11.4 ± 1.5 | 12.0 ± 1.3 | 0.94 |
| Hemoglobin (g/dL) | 9.1 ± 0.3 | 10.2 ± 0.5 | 9.3 ± 0.4 | 0.18 |

B.E., Base excess; mAb, monoclonal antibody; TNF-α, tumor necrosis factor-alfa.

Supplemental Digital Content 7. Arterial gas analysis 150 min after shock induction

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| Variables | Control  N = 8 | Anti-TNF-α mAb  N = 9 | H2+ Anti-TNF-α mAb  N = 9 | *P* value |
| pH | 7.393 ± 0.01 | 7.381 ± 0.007 | 7.399 ± 0.007 | 0.07 |
| pCO2 (mmHg) | 36.9 ± 1.9 | 37.5± 2.2 | 36.4 ± 2.2 | 0.35 |
| pO2 (mmHg) | 127.8 ± 15.3 | 91.9 ± 11.1 | 107.1 ± 3.2 | 0.14 |
| HCO3- (mmol/L) | 22.3 ± 1.0 | 22.8 ± 1.5 | 22.4 ± 1.2 | 0.96 |
| B.E. (mEq/L) | -2.6 ± 1.1 | -2.3 ± 1.6 | -2.3 ± 1.2 | 0.98 |
| Potassium (mEq/L) | 5.33 ± 0.2 | 4.54 ± 0.2\* | 4.57 ± 0.3 | 0.03 |
| Lactate (mmol/L) | 3.59 ± 0.5 | 2.60 ± 0.2 | 2.50 ± 0.3 | 0.07 |
| Hemoglobin (g/dL) | 7.1 ± 0.3 | 7.8 ± 0.4 | 7.3 ± 0.4 | 0.45 |

\**P = 0.03*, vs control group. B.E., Base excess; mAb, monoclonal antibody; TNF-α, tumor necrosis factor-alfa.