### Supplemental Table S1: Summary of hemodynamic variables over time

| Outcome                                      | n missing | Mean ± standard deviation (n = 92) | Change from baseline (99.89% confidence interval)* | P value* |
|----------------------------------------------|-----------|-----------------------------------|-----------------------------------------------------|----------|
| **Mean arterial pressure, mmHg**             |           |                                   |                                                     |          |
| Before start of induction                    |           | 96 ± 13                           |                                                     |          |
| During preoxygenation with face mask         |           | 98 ± 15                           | 2 (-4, 7)                                           | 0.24     |
| 45 s after sufentanil                        |           | 97 ± 15                           | 1 (-4, 6)                                           | 0.69     |
| 45 s after propofol                          |           | 74 ± 15                           | -23 (-28, -17)                                      | <0.001** |
| 90 s after rocuronium                        |           | 67 ± 15                           | -28 (-33, -23)                                      | <0.001** |
| 60 s after intubation                        | 1         | 94 ± 21                           | -3 (-8, 3)                                          | 0.22     |
| 180 s after intubation                       | 1         | 81 ± 20                           | -15 (-20, -10)                                      | <0.001** |
| **Systolic blood pressure, mmHg**            |           |                                   |                                                     |          |
| Before start of induction                    |           | 123 ± 18                          |                                                     |          |
| During preoxygenation with face mask         |           | 127 ± 22                          | 4 (-3, 10)                                          | 0.026    |
| 45 s after sufentanil                        |           | 123 ± 21                          | -0.1 (-6, 6)                                        | 0.95     |
| 45 s after propofol                          |           | 95 ± 18                           | -28 (-35, -22)                                      | <0.001** |
| 90 s after rocuronium                        |           | 90 ± 18                           | -33 (-40, -27)                                      | <0.001** |
| 60 s after intubation                        | 1         | 118 ± 25                          | -5 (-12, 1)                                         | 0.036    |
| 180 s after intubation                       | 1         | 104 ± 24                          | -19 (-25, -12)                                      | <0.001** |
| **Diastolic blood pressure, mmHg**           |           |                                   |                                                     |          |
| Before start of induction                    |           | 80 ± 11                           |                                                     |          |
| During preoxygenation with face mask         |           | 80 ± 14                           | -0.4 (-5, 4)                                        | 0.76     |
| 45 s after sufentanil                        |           | 80 ± 13                           | -0.8 (-5, 4)                                        | 0.61     |
| 45 s after propofol                          |           | 62 ± 14                           | -19 (-23, -14)                                      | <0.001** |
| 90 s after rocuronium                        |           | 57 ± 13                           | -23 (-28, -18)                                      | <0.001** |
| 60 s after intubation                        | 1         | 79 ± 17                           | -1 (-6, 3)                                          | 0.48     |
| 180 s after intubation                       | 1         | 68 ± 18                           | -13 (-17, -8)                                       | <0.001** |
| **Systemic vascular resistance index, dyn*s*cm⁻⁵*m²** |           |                                   |                                                     |          |
| Before start of induction                    |           | 2309 ± 544                        |                                                     |          |
| During preoxygenation with face mask         |           | 2166 ± 601                        | -143 (-290, 4)                                      | 0.001    |
| 45 s after sufentanil                        |           | 2059 ± 647                        | -250 (-397, -103)                                   | <0.001** |
| 45 s after propofol                          |           | 1744 ± 614                        | -565 (-712, -419)                                   | <0.001** |
| 90 s after rocuronium                        |           | 1764 ± 635                        | -546 (-692, -399)                                   | <0.001** |
| 60 s after intubation                        | 2         | 2311 ± 694                        | 5 (-143, 153)                                       | 0.94     |
| 180 s after intubation                       | 2         | 1995 ± 735                        | -310 (-458, -162)                                   | <0.001** |
|                                | Before start of induction | 45 s after sufentanil | 90 s after rocuronium | 60 s after intubation | 180 s after intubation |
|--------------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| **Heart rate, bpm**            |                           |                       |                       |                       |                       |
| Before start of induction      | 72 ± 13                   | 83 ± 20               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| During preoxygenation with face mask | 73 ± 15                   | 70 ± 11               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| 45 s after sufentanil          |                           | 83 ± 20               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| 45 s after propofol            |                           | 70 ± 11               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| 90 s after rocuronium          |                           | 64 ± 12               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| 60 s after intubation          |                           | 83 ± 20               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |
| 180 s after intubation         |                           | 70 ± 11               | 64 ± 12               | 1 73 ± 15             | 1 70 ± 15             |

| **Stroke volume index, mL·m⁻²** | Before start of induction | 45 s after sufentanil | 90 s after rocuronium | 60 s after intubation | 180 s after intubation |
|---------------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Before start of induction       | 45 ± 6                    | 46 ± 6                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| During preoxygenation with face mask | 47 ± 8                    | 46 ± 6                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| 45 s after sufentanil           |                           | 46 ± 6                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| 45 s after propofol             |                           | 46 ± 6                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| 90 s after rocuronium           |                           | 46 ± 6                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| 60 s after intubation           |                           | 46 ± 9                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |
| 180 s after intubation          |                           | 46 ± 9                | 48 ± 9                | 2 45 ± 8              | 2 46 ± 9              |

| **Cardiac index, L·min⁻¹·m⁻²**  | Before start of induction | 45 s after sufentanil | 90 s after rocuronium | 60 s after intubation | 180 s after intubation |
|---------------------------------|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Before start of induction       | 3.2 ± 0.6                 | 3.7 ± 0.9             | 3.1 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| During preoxygenation with face mask | 3.4 ± 0.7                 | 3.7 ± 0.9             | 3.1 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| 45 s after sufentanil           |                           | 3.7 ± 0.9             | 3.1 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| 45 s after propofol             |                           | 3.5 ± 0.8             | 3.1 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| 90 s after rocuronium           |                           | 3.5 ± 0.8             | 3.1 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| 60 s after intubation           |                           | 3.3 ± 0.6             | 3.3 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |
| 180 s after intubation          |                           | 3.3 ± 0.6             | 3.3 ± 0.8             | 3.3 ± 0.6             | 3.3 ± 0.8             |

* From linear mixed model
** statistical significant after using Bonferroni correction (i.e., alpha = 0.05/7/6 = 0.0011)