

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Effects of propofol anesthesia alone on blood gas and blood glucose in aged rats.**

Group	n	PH	PaCO <sub>2</sub> (mmHg)	PaO <sub>2</sub> (mmHg)	SaO <sub>2</sub> (%)	Hb (g/L)	Glucose (mmol/L)
CON	6	7.35±0.02	41.1±3.3	157.3±14.0	96.7±2.5	151.7±14.5	6.3±0.6
PRO4	6	7.39±0.07	42.9±3.7	153.3± 8.2	95.7±1.6	146.3± 7.7	6.2±0.7
CON+RAP	6	7.37±0.04	41.7±1.4	155.7±14.6	97.0±1.0	151.4±10.0	6.2±0.3
PRO4+RAP	6	7.38±0.02	42.4±3.0	154.7±11.5	95.1±0.69	148.8± 7.9	6.0±0.5
<i>P</i> Value		0.491	0.367	0.270	0.240	0.929	0.850

Propofol intravenous anesthesia for 2 or 4 hours had no significant effect on blood gas and blood glucose in aged rats, and this was not influenced by rapamycin. PaCO<sub>2</sub>, partial pressure of carbon dioxide in arterial blood; PaO<sub>2</sub>, partial pressure of oxygen in arterial blood; SaO<sub>2</sub>, arterial oxygen saturation; Hb, hemoglobin; Glucose, blood glucose. CON: the control group, CON+RAP: the control+rapamycin group, PRO4: the 4-h propofol anesthesia group, PRO4+RAP: the 4-h propofol anesthesia+rapamycin group. Values are shown mean± SEM (n = 6/group).

**Supplementary Table 2. Effects of propofol anesthesia and surgery on blood gas and blood glucose in aged rats.**

Group	n	PH	PaCO <sub>2</sub> (mmHg)	PaO <sub>2</sub> (mmHg)	SaO <sub>2</sub> (%)	Hb (g/L)	Glucose (mmol/L)
CON	6	7.34±0.04	42.1±2.7	158.1±13.6	96.1±3.5	149.7±10.5	6.4±0.5
PRO2S	6	7.38±0.06	42.7±3.9	154.7±9.2	95.9±2.3	143.3± 5.7	6.4±0.7
CON+RAP	6	7.35±0.04	42.3±3.0	158.7±10.5	96.9±1.39	149.8± 8.4	6.2±0.7
PRO2S+RAP	6	7.37±0.06	42.7±3.4	155.7±14.6	95.0±1.0	150.4±10.5	6.2±0.4
<i>p</i> value		0.497	0.387	0.283	0.276	0.892	0.861

Intravenous propofol anesthesia for 2 hours combined with laparotomy had no significant effect on blood gas and blood glucose in aged rats, and this was not influenced by rapamycin. PaCO<sub>2</sub>, partial pressure of carbon dioxide in arterial blood; PaO<sub>2</sub>, partial pressure of oxygen in arterial blood; SaO<sub>2</sub>, arterial oxygen saturation; Hb, hemoglobin; Glucose, blood glucose. CON: the control group, CON + RAP: the control + rapamycin group, PRO2S: the 2-h propofol anesthesia+surgery group, PRO2S+RAP: the 2-h propofol anesthesia+surgery+rapamycin group. Values are shown mean± SEM (n = 6/group).