

TABLE 1. Physiological variables of the five study groups at pre-injury and post-injury (before intratracheal treatment).

Group	Weight (g)	pH	PaCO ₂ (torr)	PaO ₂ (torr)	AaDO ₂	Peak inspiratory pressure (cm H ₂ O)	Oxygen index	Heart rate (beats/min)	Mean arterial blood pressure (mmHg)
Pre-injury									
Control	422.0 ± 13.6	7.39 ± 0.02	43.6 ± 3.4	486.4 ± 12.6	172.1 ± 14.5	13.7 ± 1.2	1.42 ± 0.12	290 ± 33.7	46.4 ± 7.2
IT-NS-BUD	403.3 ± 13.1	7.37 ± 0.01	47.0 ± 0.9	515.2 ± 20.5 ^a	139.1 ± 20.4 ^a	13.4 ± 1.1	1.24 ± 0.18	320 ± 28.8	65.5 ± 11.8
IT-DS-BUD	420.0 ± 5.0	7.39 ± 0.02	43.0 ± 2.0	490.8 ± 12.2	168.5 ± 10.4	15.4 ± 0.9	1.54 ± 0.10	306 ± 22.6	51.2 ± 5.0
IT-FS-BUD	391.0 ± 14.2	7.38 ± 0.01	45.4 ± 2.3	475.4 ± 14.5	180.9 ± 16.5	13.8 ± 1.2	1.44 ± 0.09	363 ± 20.7	72.2 ± 4.6 ^a
IT-FS	450.8 ± 8.8	7.39 ± 0.01	43.7 ± 1.9	515.7 ± 20.1	142.8 ± 20.7	14.8 ± 0.9	1.46 ± 0.10	310 ± 13.6	74.5 ± 4.5 ^a
Post-injury (before intratracheal treatment)									
Control		7.15 ± 0.02 ^b	75.8 ± 1.9 ^b	48.0 ± 4.4 ^b	570.3 ± 5.5 ^b	28.9 ± 1.6 ^b	27.0 ± 2.8 ^b	360 ± 11.5	34.6 ± 4.4 ^b
IT-NS-BUD		7.17 ± 0.02 ^b	73.2 ± 2.7 ^b	47.8 ± 1.7 ^b	573.7 ± 2.7 ^b	25.8 ± 0.4 ^b	23.8 ± 1.0 ^b	329 ± 19.0	42.8 ± 5.2 ^b
IT-DS-BUD		7.17 ± 0.02 ^b	70.4 ± 2.8 ^b	44.0 ± 1.4 ^b	581.0 ± 3.7 ^b	30.7 ± 0.9 ^b	29.8 ± 0.5 ^b	385 ± 22.6 ^b	42.6 ± 3.8
IT-FS-BUD		7.16 ± 0.02 ^b	74.8 ± 4.2 ^b	47.4 ± 2.7 ^b	572.1 ± 6.9 ^b	28.1 ± 1.1 ^b	26.1 ± 2.1 ^b	379 ± 9.3	40.8 ± 6.3 ^b
IT-FS		7.20 ± 0.02 ^b	70.0 ± 3.7 ^b	54.7 ± 6.3 ^b	570.8 ± 7.9 ^b	25.2 ± 2.1 ^b	21.8 ± 3.2 ^b	357 ± 26.9 ^b	61.9 ± 7.8 ^b

The study groups subsequently received different intratracheal treatments: 1) control group, no treatment; 2) IT-NS-BUD group, BUD (0.5 mg/kg) in saline; 3) IT-DS-BUD group, BUD (0.5 mg/kg) in a solution of diluted Survanta (10 mg/mL); 4) IT-FS-BUD group, BUD (0.5 mg/kg) in a solution of full-strength Survanta (25 mg/mL); 5) IT-FS group, a solution of full-strength Survanta (25 mg/mL) alone. PaO₂, oxygen tension in arterial blood; PaCO₂, carbon dioxide tension in arterial blood; AaDO₂, alveolar-arterial oxygen gradient.

^aP < 0.05 versus control group at the same time point. ^bP < 0.05 versus pre-injury data of the same group. Data in each group (n = 5) are presented as mean ± SEM.