

Table SI. MAP at each time-point.

Group	MAP, mmHg									
	T0	T1	T2	T3	T4	T5	T6	T7	T8	T9
Sham	77.36±6.13	71.64±4.45	75.72±4.34	75.32±4.49	76.68±4.55	75.48±3.96	75.32±5.44	76.44±5.16	76.08±4.07	73.88±5.34
VILI	75.36±5.23	73.64±3.24	72.52±3.24	77.32±3.24	78.34±3.24	78.57±3.38	74.56±4.12	75.26±4.87	73.67±3.75	72.45±3.65
VILI+L-Dex	73.54±4.35	70.64±2.16	73.25±4.32	73.56±4.35	73.45±3.78	72.46±3.78	70.21±3.05	71.37±3.56	75.24±3.97	71.23±5.13
VILI+H-Dex	70.36±3.24	76.25±4.23	75.67±2.56	74.24±4.21	75.28±2.87	73.58±2.85	72.63±3.97	74.98±4.47	74.56±4.59	70.34±4.37
VILI+L-Dex +PD	71.43±4.53	72.37±5.13	70.67±1.67	72.78±3.97	71.24±3.89	70.72±4.21	73.29±4.25	72.76±3.98	74.39±4.78	72.73±3.85
VILI+H-Dex +PD	72.67±3.78	74.64±3.47	71.34±2.41	75.68±2.96	74.75±4.35	71.36±2.98	72.57±4.98	73.68±4.57	75.52±5.34	71.51±5.16
PD	70.12±4.13	72.54±4.26	73.54±2.37	74.25±4.56	70.34±3.26	74.35±4.27	72.46±3.49	74.35±4.95	72.65±5.25	70.95±4.34

N=24. Dex, dexmedetomidine; H-Dex, high dose Dex at 10 $\mu\text{g}/\text{kg}$; L-Dex, low dose Dex at 1 $\mu\text{g}/\text{kg}$; MAP, mean arterial pressure; PD, PD98059; T0, 10 min before Dex application; T1, 5 min before Dex application; T2, 5 min after drug application; T3, 10 min after drug application; T4, 30 min after drug application; T5, 60 min after drug application; T6, 90 min after drug application; T7, 120 min after drug application; T8, 180 min after drug application; T9, 240 min after drug application; VILI, ventilator-induced lung injury group.

Table SII. HR of each group at each time-point.

Group	HR, bpm									
	T0	T1	T2	T3	T4	T5	T6	T7	T8	T9
Sham	100.34±4.67	95.45±4.45	94.56±5.47	89.45±5.36	87.69±4.87	85.84±3.96	82.45±5.54	84.35±4.36	80.67±4.74	82.36±4.59
VILI	106.36±5.43	98.45±5.34	95.35±5.35	90.56±3.45	91.36±4.38	87.46±4.21	89.68±5.13	87.78±5.74	81.43±5.34	84.56±4.89
VILI+L-Dex	103.36±4.12	97.56±5.15	90.43±4.34	89.76±4.62	86.45±5.76	85.34±4.65	84.73±4.29	85.65±5.97	84.83±5.41	83.21±4.29
VILI+H-Dex	105.45±3.65	98.54±5.64	92.45±5.46	88.54±4.85	84.56±4.85	83.64±4.53	82.56±3.26	83.26±4.78	83.75±3.59	83.24±3.78
VILI+L-Dex +PD	104.73±4.46	96.47±4.67	94.68±4.97	90.43±3.96	85.54±5.10	84.64±3.86	83.45±3.83	82.53±3.57	85.45±4.36	84.37±3.67
VILI+H-Dex +PD	101.24±3.94	95.46±4.79	90.64±5.37	88.54±4.86	83.65±4.75	83.75±3.51	84.24±4.17	83.65±4.75	83.54±3.79	82.57±4.03
PD	100.56±5.45	96.48±5.06	91.46±4.30	90.54±3.98	84.37±4.59	82.56±3.68	83.56±4.69	82.35±5.01	82.35±3.67	83.67±4.38

N=24. Bpm, beats per minute; Dex, dexmedetomidine; H-Dex, high dose Dex at 10 $\mu\text{g}/\text{kg}$; HR, heart rate; L-Dex, low dose Dex at 1 $\mu\text{g}/\text{kg}$; PD, PD98059; T0, 10 min before Dex application; T1, 5 min before Dex application; T2, 5 min after drug application; T3, 10 min after drug application; T4, 30 min after drug application; T5, 60 min after drug application; T6, 90 min after drug application; T7, 120 min after drug application; T8, 180 min after drug application; T9, 240 min after drug application; VILI, ventilator-induced lung injury.