

## SUPPLEMENTARY MATERIAL

**Table S1.** Baseline hemodynamic and respiratory variables measured of each group.

	SHAM	ETX-NR	ETX-R	<i>p</i>
<b>CI, ml·min<sup>-1</sup>·kg<sup>-1</sup></b>	195.3 ± 35.1	195.3 ± 35.1	209.9 ± 40.1	0.639
<b>SV, ml</b>	2.74 ± 0.45	2.98 ± 0.46	3.10 ± 0.48	0.399
<b>HR, b.p.m.</b>	179 ± 27	181 ± 18	170 ± 17	0.700
<b>MAP, mmHg</b>	67 ± 7	58 ± 7	58 ± 8	0.359
<b>Cdyn, ml·cm H<sub>2</sub>O<sup>-1</sup></b>	1.54 ± 0.11	1.45 ± 0.12	1.35 ± 0.21	0.043
<b>Ppeak, cm H<sub>2</sub>O</b>	13.48 ± 0.33	14.51 ± 0.41	15.10 ± 0.52	0.052
<b>TV, ml</b>	20.82 ± 1.5	21.07 ± 1.7	20.31 ± 1.9	0.309
<b>RR, b.p.m.</b>	35.3 ± 0.5	34.7 ± 0.5	35.0 ± 1.1	0.159
<b>EtCO<sub>2</sub>, mmHg</b>	45.2 ± 4.1	42.7 ± 0.6	40.9 ± 1.2	0.072

Data are expressed as the mean ± standard deviation. SHAM: Sham-operated group, ETX-NR: Non-resuscitated septic group. ETX-R: Resuscitated septic group. Cardiac index (CI), mean arterial pressure (MAP), stroke volume (SV) and heart rate (HR). Cdyn: Dynamic compliance of the respiratory system; Ppeak: Peak pressure; TV: Tidal volume; RR: Respiratory rate; EtCO<sub>2</sub>: end-tidal CO<sub>2</sub>. *p* Time interaction of each group (repeated-measures ANOVA).

**Table S2.** Hemodynamic effects during different experimental stages.

	Baseline	1 h	2 h	3 h	4 h	<i>p</i> <sup>a</sup>	<i>p</i> <sup>b</sup>
<b>CI, ml·min<sup>-1</sup>·kg<sup>-1</sup></b>							
SHAM	195.3 ± 35.1	206.5 ± 13.2	217.7 ± 24.5	238.0 ± 33.4*	234.7 ± 51.0	0.010	
EDX-NR	211.7 ± 18.2	224.8 ± 33.9	283.2 ± 40.1	339.3 ± 40.2*α	335.5 ± 56.4*α	< 0.001	< 0.001
EDX-R	209.9 ± 40.1	243.9 ± 51.5	308.7 ± 31.2	381.6 ± 35.8	453.0 ± 41.4*αβ	< 0.001	
<b>SV, ml</b>							
SHAM	2.74 ± 0.45	2.79 ± 0.39	2.89 ± 0.50	3.16 ± 0.46*	2.99 ± 0.64	0.139	
EDX-NR	2.98 ± 0.46	2.98 ± 0.67	3.27 ± 0.70	3.52 ± 0.69*	3.42 ± 0.62	0.067	0.099
EDX-R	3.10 ± 0.48	3.40 ± 0.62	3.61 ± 0.55	4.14 ± 0.57 α	4.49 ± 0.60*αβ	< 0.001	
<b>HR, b.p.m.</b>							
SHAM	179 ± 27	187 ± 25	190 ± 24	189 ± 21	197 ± 24	0.009	
EDX-NR	181 ± 18	195 ± 26	223 ± 26	249 ± 36 α	252 ± 45 α	< 0.001	0.001
EDX-R	170 ± 17	178 ± 15	218 ± 39	234 ± 41	254 ± 20*α	< 0.001	
<b>MAP, mmHg</b>							
SHAM	63 ± 7	55 ± 6	51 ± 8	47 ± 5	50 ± 10	0.010	
EDX-NR	58 ± 7	48 ± 7	40 ± 8 α	34 ± 6*α	34 ± 9*α	< 0.001	< 0.001
EDX-R	58 ± 8	44 ± 7	42 ± 4*	37 ± 4*α	58 ± 7 β	< 0.001	

Data are expressed as the mean ± standard deviation. SHAM: Sham-operated group, ETX-NR: Non-resuscitated septic group. ETX-R: Resuscitated septic group. Cardiac index (CI), mean arterial pressure (MAP), stroke volume (SV) and heart rate (HR). *p*<sup>a</sup>: Time interaction of each group (repeated-measures ANOVA). \* *p* < 0.05 for within-subject difference compared with baseline (Bonferroni corrected). *p*<sup>b</sup>: group and time interaction. In the ETX-R group, α *p* < 0.05 vs SHAM; β *p* < 0.05 vs ETX-NR.

**Table S3.** Evolution over time of respiratory measurements of each group.

	Baseline	1 h	2 h	3 h	4 h	$p^a$	$p^b$
<b>Cdyn, ml·cm H<sub>2</sub>O<sup>-1</sup></b>							
SHAM	1.54 ± 0.11	1.49 ± 0.16	1.52 ± 0.06	1.50 ± 0.06	1.49 ± 0.06	0.483	
EDX-NR	1.45 ± 0.12	1.49 ± 0.27	1.39 ± 0.71	1.40 ± 0.04	1.39 ± 0.04	0.463	0.021
EDX-R	1.35 ± 0.00 $\alpha$	1.32 ± 0.05	1.29 ± 0.20 $\alpha$	1.28 ± 0.21 $\alpha$	1.24 ± 0.28 * $\alpha$	0.021	
<b>Ppeak, cm H<sub>2</sub>O</b>							
SHAM	13.48 ± 0.33	13.90 ± 0.35	13.98 ± 0.42	13.95 ± 0.39	13.98 ± 0.44	0.081	
EDX-NR	14.51 ± 0.41	14.58 ± 0.51	15.15 ± 0.41	15.58 ± 0.43 *	15.51 ± 0.40 *	0.034	0.001
EDX-R	15.10 ± 0.52	15.68 ± 0.40 $\alpha$	16.01 ± 0.29 $\alpha$	16.43 ± 0.50 * $\alpha$	16.51 ± 0.59 * $\alpha$	0.001	
<b>TV, ml</b>							
SHAM	20.82 ± 1.5	20.73 ± 1.1	21.20 ± 0.8	20.91 ± 0.8	20.85 ± 2.31	0.248	
EDX-NR	21.07 ± 1.7	21.60 ± 1.3	21.11 ± 0.9	21.85 ± 0.6	21.66 ± 1.60	0.627	0.944
EDX-R	20.31 ± 1.9	20.76 ± 0.6	20.65 ± 0.5	21.13 ± 0.5	20.76 ± 1.40	0.748	
<b>RR, b.p.m.</b>							
SHAM	35.33 ± 0.21	35.31 ± 0.21	35.33 ± 0.21	35.33 ± 0.21	35.33 ± 0.21	0.431	
EDX-NR	34.65 ± 0.20	34.95 ± 0.06	35.23 ± 0.44	35.31 ± 0.42	35.31 ± 0.42	0.200	0.715
EDX-R	34.98 ± 0.01	34.90 ± 0.06	35.26 ± 0.35	35.65 ± 0.61	35.58 ± 0.63	0.444	
<b>EtCO<sub>2</sub>, mmHg</b>							
SHAM	45.2 ± 4.1	45.2 ± 4.2	42.6 ± 2.4	42.5 ± 3.3	42.1 ± 3.1	0.151	
EDX-NR	42.7 ± 0.6	43.0 ± 1.6	44.6 ± 1.8	42.7 ± 1.6	41.1 ± 2.6	0.750	0.845
EDX-R	40.9 ± 1.2	40.5 ± 1.7	44.4 ± 2.2	42.5 ± 2.6	45.7 ± 2.5	0.244	

Data are expressed as the mean ± standard deviation. SHAM: Sham-operated group, ETX-NR: Non-resuscitated septic group. ETX-R: Resuscitated septic group. Cdyn: Dynamic compliance of the respiratory system; Ppeak: Peak pressure; TV: Tidal volume; RR: Respiratory rate; EtCO<sub>2</sub>: end-tidal CO<sub>2</sub>.  $p^a$ : Time interaction of each group (repeated-measures ANOVA). \*  $p < 0.05$  for within-subject difference compared with baseline (Bonferroni corrected).  $p^b$ : group and time interaction. In the ETX-R group,  $\alpha$   $p < 0.05$  vs SHAM;  $\beta$   $p < 0.05$  vs ETX-NR