

Fig. S1 Study flow diagram.



Fig. S2 Sensitivity analysis of mortality in low-bias risk studies.

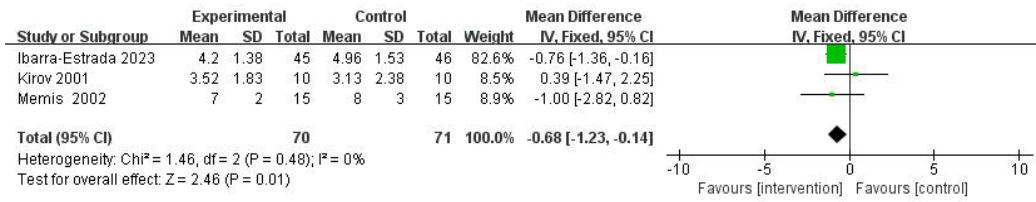


Fig. S3 Forest plots of Mechanical ventilation time in patients with distributive shock.

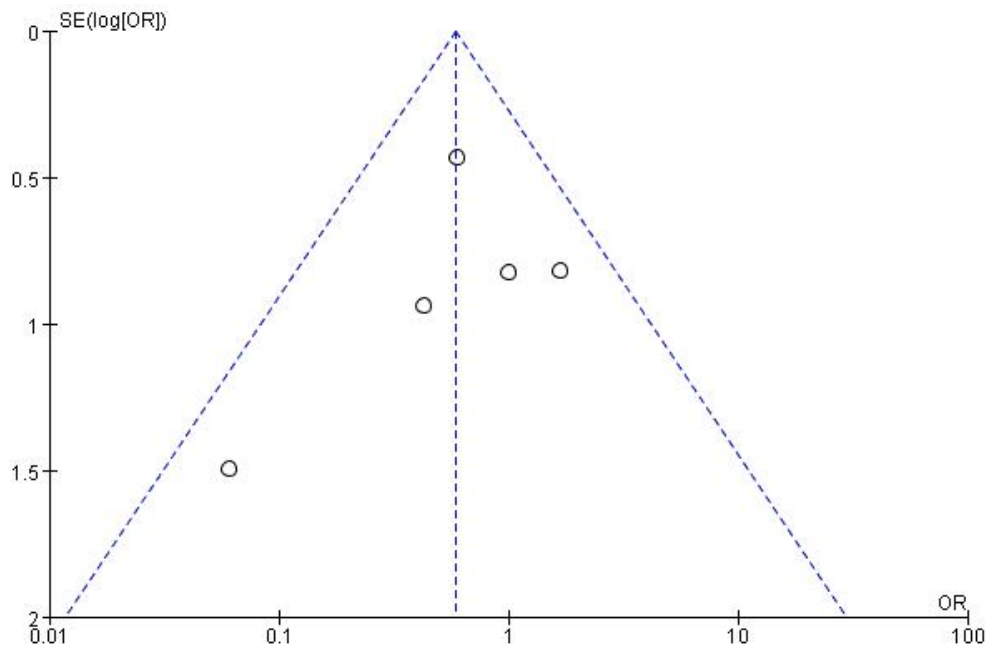


Fig. S4 Funnel plot of mortality during follow-up.

**Table S1.** Risk of bias

First author	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias	Composite bias
Ibarra-Estrada 2023	+	?	+	+	+	+	+	+
Kirov 2001	?	+	+	+	+	+	+	+
Koelzow 2002	?	?	?	?	?	?	?	?
Levin 2004	?	?	?	?	+	+	+	?
Maslow 2006	?	?	?	?	+	+	+	?
Memis 2002	+	+	+	?	+	+	+	+

"+", low risk of bias; "?", uncertain risk of bias; "-", high risk of bias

Table S2. Data extraction

Study	Address	Diagnosis	Dose(I) (mg/kg)	Sample size	Primary outcome(I/C)		Mean arterial pressure (I/C)(mmHg)		Mechanical ventilation time (I/C)(h)		ICU Length of stay (I/C)(d)		Hospital Length of stay (I/C)(d)		Heart rate(I/C)(times/min)	
Kirov 2001	ICU	Septic shock	2 mg/kg (iv) +0.25–2.00 mg/kg/h (iv 4 h) (N=10)	20	5	7	86.5+1 3.6	82.5+1 7.2	84.4+4 3.9	75.1+5 7.1	6.4+4	6.1+4.5	17.4+1 5.5	16.1+1 5.6	135+ 27	123+ 25
Koelzow 2002	Surgery	Ischemia reperfusion syndrome	1.5 mg/kg (iv) (N=20)	38	5	3	80+13. 4	69+8.5								
Memis 2002	Anesthesiology	Septic shock	0.5 mg/kg/h (iv 6 h) (N=15)	30	4	4	85+14	74.0+1 0.3	7+2	8+3	13+2	16+4			112+ 11	115+ 9
Levin 2004	Surgery	Vasoplegic syndrome	1.5 mg/kg/h (iv 1h)(N=28)	56	0	6										
Maslow 2006	Surgery	Vasoplegic syndrome	3 mg/kg (iv) (N=15)	30	0	0	60+8	58+8								
Ibarra-Est rada 2023	ICU	Septic shock	100 mg/d (iv 6 h) (N=45)	91	15	21			4.20+1. 38	4.96+1. 53	6.32+2. 14	7.62+3. 82	8.15+2. 3	10.18+6.05		

I: Intervention group; C: Control group;

