

Supplement 1: Search strategies

PubMed:

(("labour"[All Fields] OR "work"[MeSH Terms] OR "work"[All Fields] OR "labor"[All Fields] OR "labor, obstetric"[MeSH Terms] OR ("labor"[All Fields] AND "obstetric"[All Fields]) OR "obstetric labor"[All Fields]) AND ("S-ketamine"[MeSH Terms] OR "S-ketamine"[All Fields] OR ("esketamine"[All Fields])) AND ("depressive disorder"[MeSH Terms] OR ("depressive"[All Fields] AND "disorder"[All Fields]) OR "depressive disorder"[All Fields] OR "depression"[All Fields] OR "depression"[MeSH Terms]) AND ((clinical trial) OR (clinical study))

Web of science:

(TS=(esketamine) OR TS=(S-ketamine)) AND TS=(depression) AND (TS=(postpartum) OR TS=(postnatal))

Supplement 2A. Risk of bias summary.

	Wang 2023	Shen 2023	Liu 2023	Han 2022	Guo 2023	
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	+	?	+	?	?	

Supplement 2B. Sensitivity analysis for the early stage.

Study omitted		Estimate	[95% Conf. Interval]
Wang (2023)		- .73723221	-1.4468604 - .02760406
Liu (2023)		-2.3704414	-4.3615227 - .37936005
Shen (2023)		-2.6560647	-4.7958856 - .51624382
Guo (2023)		-2.4832439	-5.1760855 .20959745
Han (2022)		-2.2448773	-4.755724 .26596937
Combined		-2.0530829	-3.7693364 -.33682938

Supplement 2C. Sensitivity analysis for the middle and the later stages.

Study omitted		Estimate	[95% Conf. Interval]
Wang (2023)		-.14721325	-.49465942 .20023292
Liu (2023)		-1.6674263	-3.3697267 .03487388
Shen (2023)		-1.9683123	-3.8467221 -.08990239
Guo (2023)		-1.9889039	-4.2691817 .29137409
Han (2022)		-1.8795015	-4.0490589 .29005593
Combined		-1.4114868	-2.858624 .03565033

Supplement 2D. Egger linear regression test for publication bias. Analyzed from the early stage and the middle and later stages, respectively.

Egger's test

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope	.6051343	1.695134	0.36	0.745	-4.789539 5.999808
bias	-5.025853	4.529928	-1.11	0.348	-19.44211 9.390399

Std_Eff	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
slope	1.53005	1.203371	1.27	0.293	-2.299614 5.359713
bias	-5.341989	3.07421	-1.74	0.181	-15.1255 4.44152