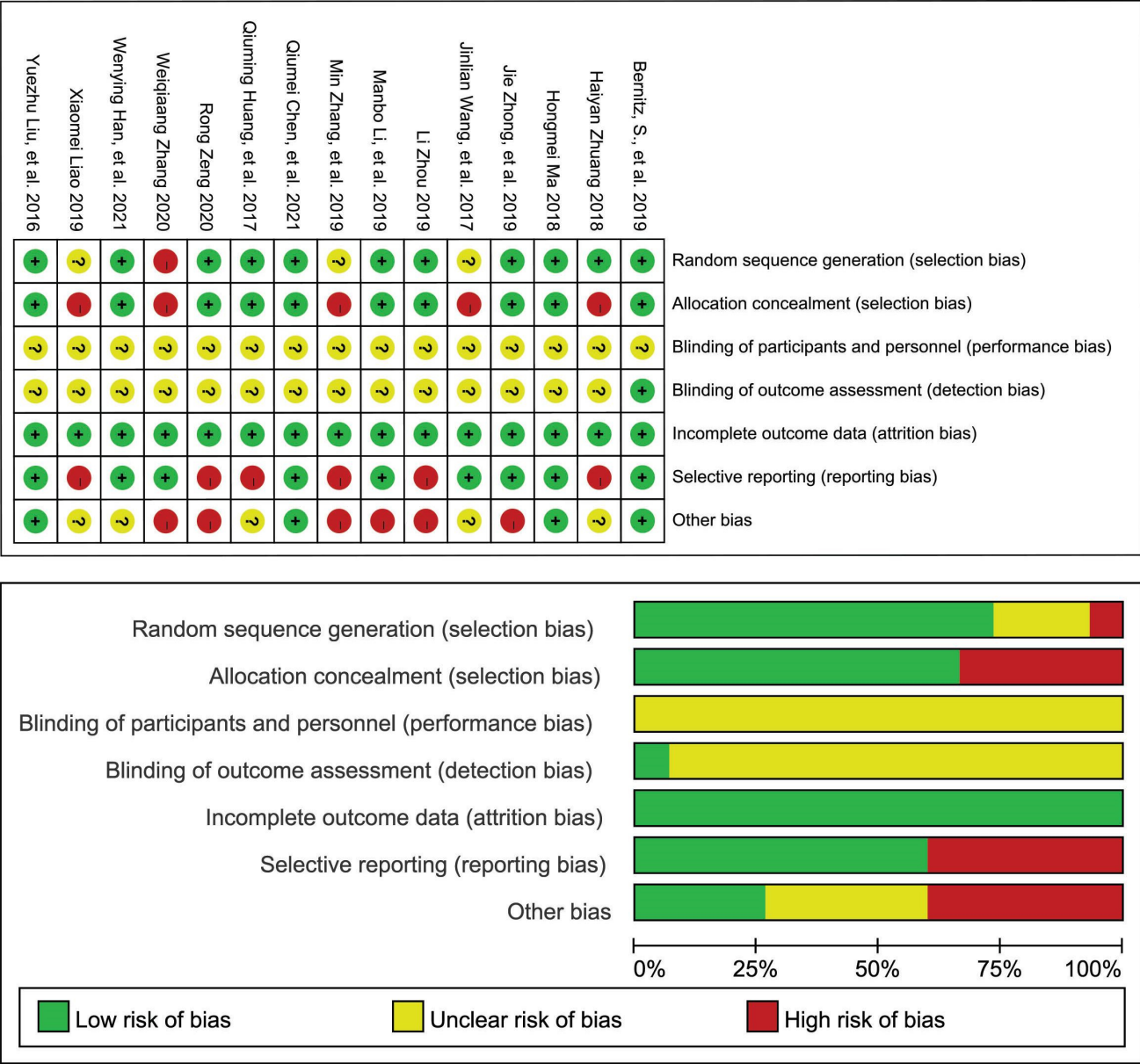
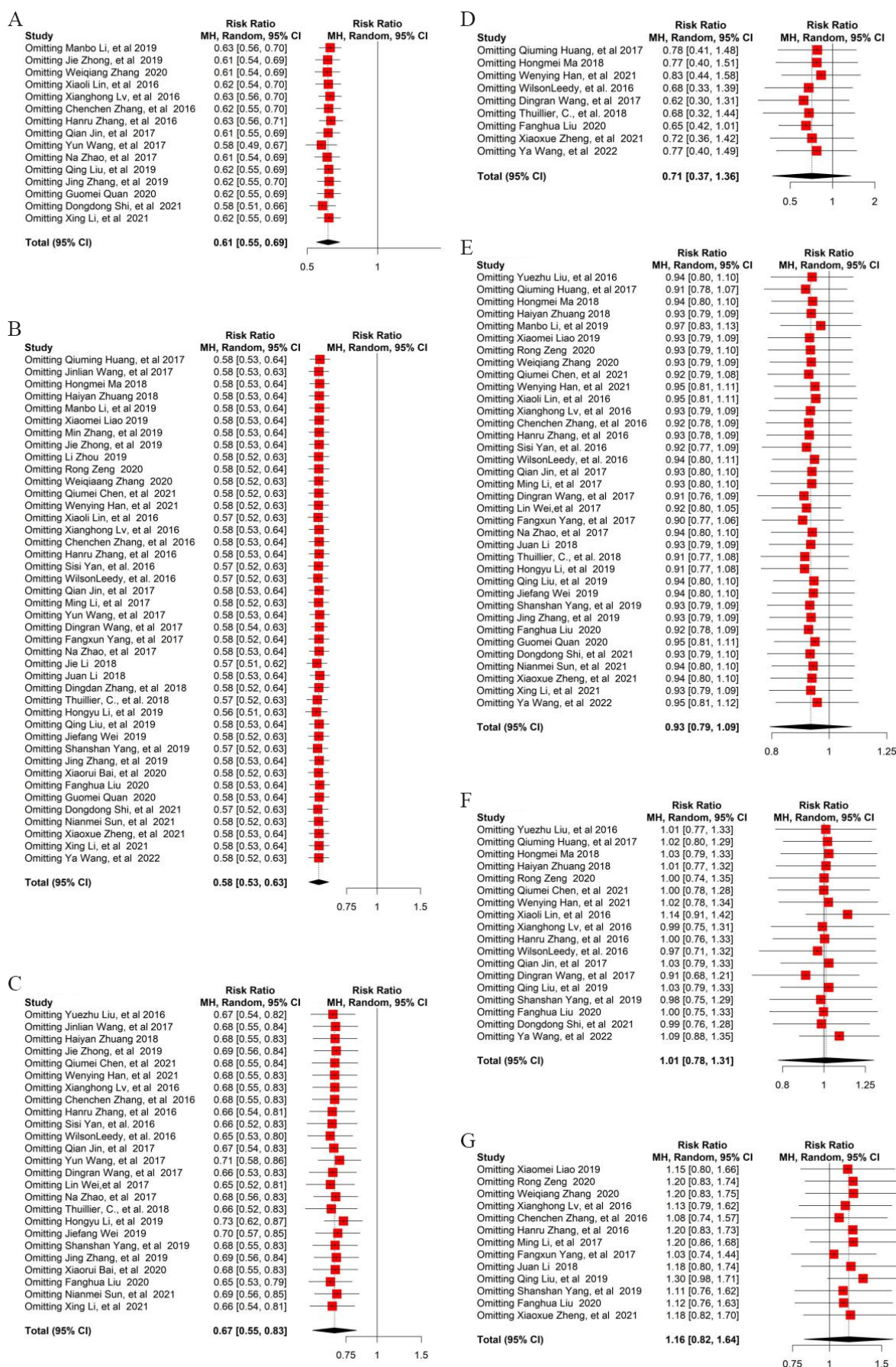


Database	#	Search Details	Results
Pubmed	1	("0001/01/01"[Date - Publication] : "2022/12/07"[Date - Publication])	34,984,275
	2	(labor zhang's[Title/Abstract]) OR (labour zhang's[Title/Abstract])	36
	3	(new labor zhang's[Title/Abstract]) OR (new labour zhang's[Title/Abstract])	13
	4	(new labor management[Title/Abstract]) OR (new labour management[Title/Abstract])	30
	5	(contemporary labor[Title/Abstract]) OR (contemporary labour[Title/Abstract])	25
	6	#1 AND #2 OR #3 OR #4 OR #5	90
Web of Science	1	TS=(labor, obstetric)	75,949
	2	(AB=(new management)) OR TS=(contemporary management)	1498
	3	(AB=(new management)) OR TS=(contemporary management)	553,505
	4	#1 AND #2 AND #3	3
	5	Timespan: 1950-01-01 to 2022-12-07	3
Embase	1	labor management'/mj	478
	2	contemporary	132,969
	3	new	6,969,918
	4	zhang	1,205,116
	5	#2 OR #3 OR #4	8,026,138
	6	#1 AND #5	110
Cochrane	1	MeSH descriptor: [Labor, Obstetric] this term only	1118
	2	(management):ti,ab,kw	139,876
	3	(new OR contemporary):ti,ab,kw	145,212
	4	#1 AND #2 AND #3	10
CNKI	1	'new labor standards' AND 'pregnancy outcomes'	76
VIP	1	'new labor standards' AND 'pregnancy outcomes'	60
Wangfang Database	1	'new labor standards' AND 'pregnancy outcomes'	58
Total			407

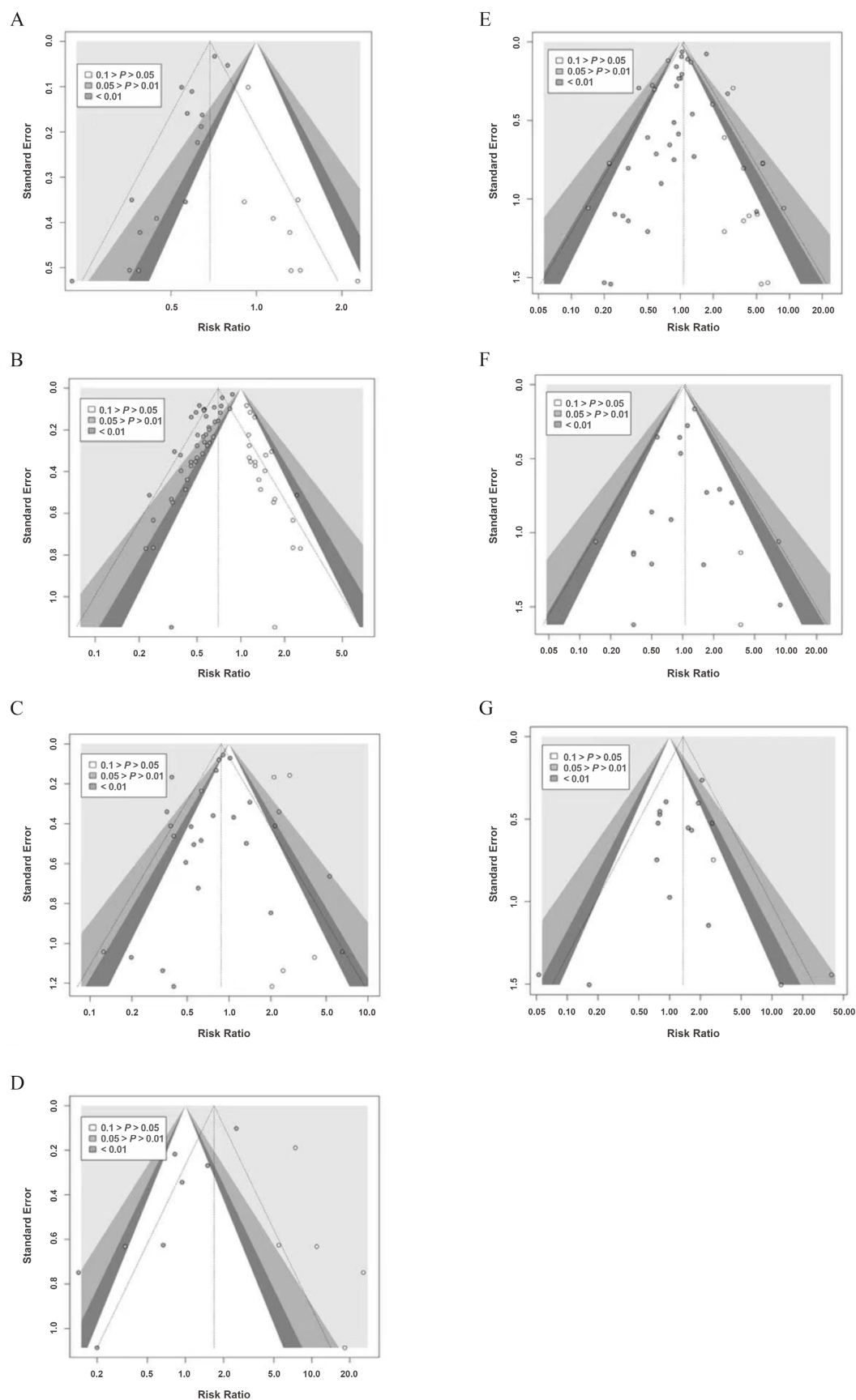
Supplementary Figure 1. Search strategy.



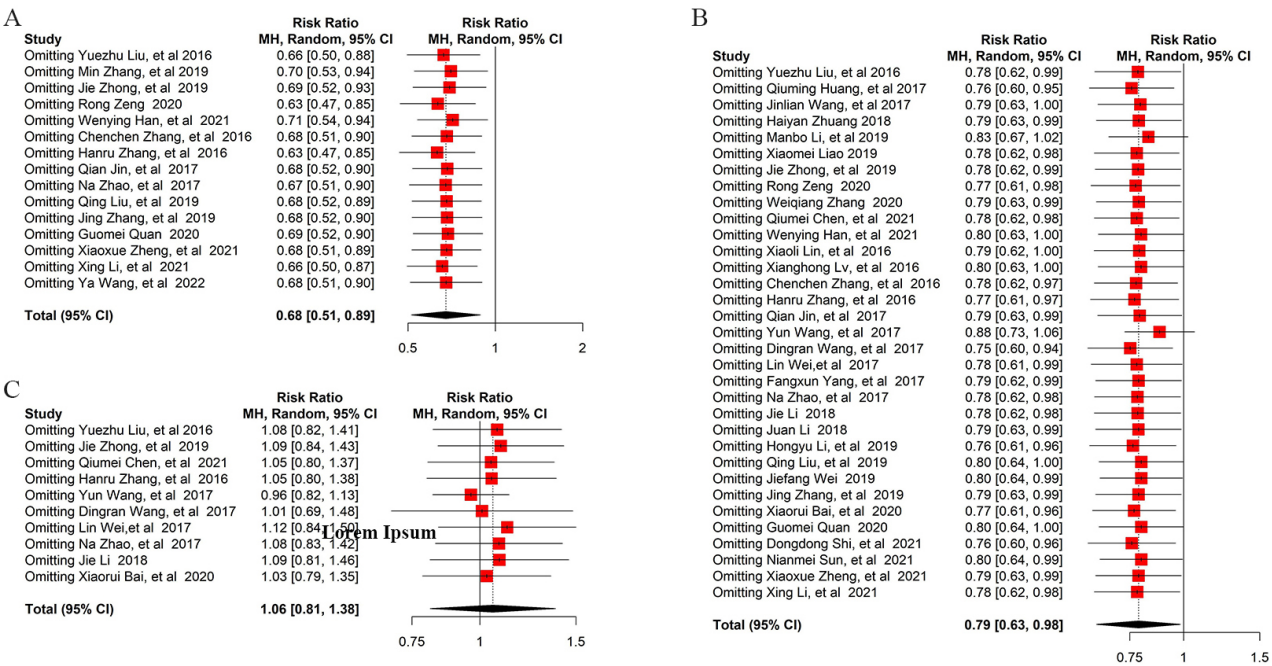
Supplementary Figure 2. Risk of bias of RCTs. RCTs: randomized controlled trials.



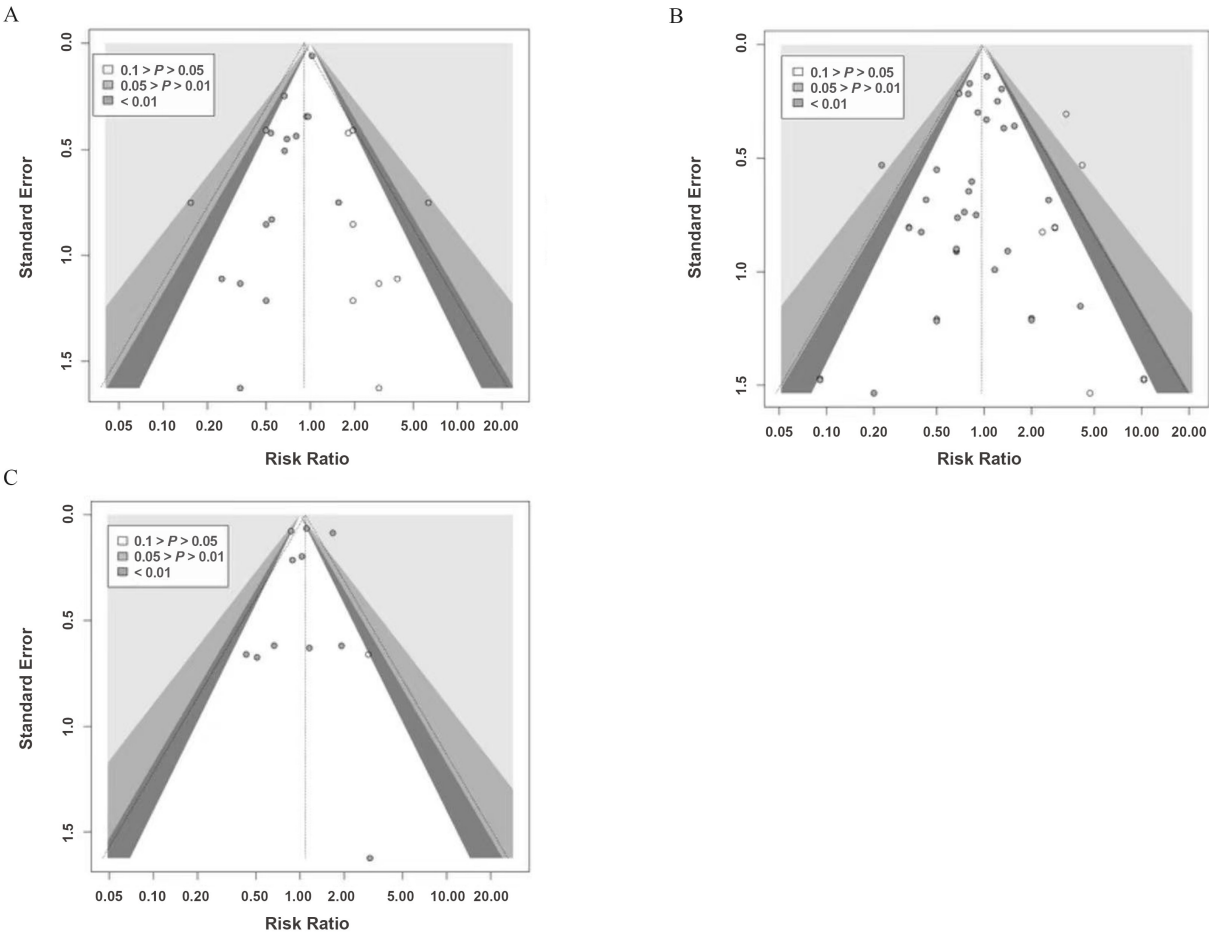
**Supplementary Figure 3.** Sensitivity analysis for maternal morbidity. (A): labor augmentation with oxytocin. (B): intrapartum cesarean section; (C): operative vaginal delivery. (D): 3<sup>rd</sup> and 4<sup>th</sup>- degree perineal laceration. (E): postpartum hemorrhage. (F): infectious morbidity (chorioamnionitis, endometritis and puerperal infection). (G): postpartum urine retention.



**Supplementary Figure 4.** Funnel plots for maternal morbidity. (A): labor augmentation with oxytocin. (B): intrapartum cesarean section. (C): operative vaginal delivery. (D): 3<sup>rd</sup>- and 4<sup>th</sup>- degree perineal laceration. (E): postpartum hemorrhage. (F): infectious morbidity (chorioamnionitis, endometritis and puerperal infection). (G): postpartum urine retention.



Supplementary Figure 5. Sensitivity analysis for neonatal morbidity. (A): fetal distress. (B): neonatal asphyxia. (C): neonatal intensive care unit admission.



Supplementary Figure 6. Funnel plots for neonatal morbidity. (A): fetal distress. (B): neonatal asphyxia. (C): neonatal intensive care unit admission.

**Table S1: Risk of bias assessment using the NOS of included cohort studies**

Studies	Selection	Comparability	Outcome	Total score	Quality score
Lin <i>et al.</i> 2016 <sup>[30]</sup>	****	**	*	7	High
Lv <i>et al.</i> 2016 <sup>[31]</sup>	**	*	**	5	Low
Zhang <i>et al.</i> 2016 <sup>[32]</sup>	***	**	*	6	Low
Zhang 2016 <sup>[33]</sup>	****	**	**	8	High
Jin 2017 <sup>[34]</sup>	**	*	**	5	Low
Li <i>et al.</i> 2017 <sup>[35]</sup>	**	*	*	4	Low
Wang <i>et al.</i> 2017 <sup>[36]</sup>	***	*	**	6	Low
Wang <i>et al.</i> 2017 <sup>[37]</sup>	****	*	**	7	High
Wei <i>et al.</i> 2017 <sup>[38]</sup>	****	*	**	7	High
Yang 2017 <sup>[39]</sup>	****	*	*	6	Low
Zhao <i>et al.</i> 2017 <sup>[40]</sup>	**	**	**	6	Low
Li 2018 <sup>[41]</sup>	****	*	**	7	High
Li 2018 <sup>[42]</sup>	****	**	**	8	High
Zhang 2018 <sup>[43]</sup>	****	*	**	7	High
Li <i>et al.</i> 2019 <sup>[44]</sup>	****	*	**	7	High
Liu <i>et al.</i> 2019 <sup>[45]</sup>	***	**	**	7	High
Wei 2019 <sup>[46]</sup>	**	*	**	5	Low
Yang <i>et al.</i> 2019 <sup>[47]</sup>	***	*	**	6	Low
Zhang <i>et al.</i> 2019 <sup>[48]</sup>	***	*	**	6	Low
Bai and Xue 2020 <sup>[49]</sup>	***	*	**	6	Low
Liu 2020 <sup>[50]</sup>	***	**	**	7	High
Quan 2020 <sup>[51]</sup>	**	**	*	5	Low
Shi <i>et al.</i> 2021 <sup>[52]</sup>	****	**	**	7	High
Sun <i>et al.</i> 2021 <sup>[53]</sup>	***	*	*	5	Low
Zheng <i>et al.</i> 2021 <sup>[54]</sup>	**	*	**	5	Low
Li <i>et al.</i> 2021 <sup>[55]</sup>	***	**	**	7	High
Wang <i>et al.</i> 2022 <sup>[56]</sup>	***	*	**	6	Low

One “asterisk” denotes 1 point. A maximum of 9 stars be allotted to each study. NOS: Newcastle-Ottawa scale.