**Supplementary material**

Supplementary Table 1. Search strategy.

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| ((((((((((((((Cesarean Section[MeSH Terms]) OR (Cesarean Sections[Other Term])) OR (Delivery, Abdominal[Other Term])) OR (Abdominal Deliveries[Other Term])) OR (Deliveries, Abdominal[Other Term])) OR (Caesarean Section[Other Term])) OR (Caesarean Sections[Other Term])) OR (Abdominal Delivery[Other Term])) OR (C-Section (OB[Other Term]))) OR (C Section (OB[Other Term]))) OR (C-Sections (OB[Other Term]))) OR (Postcesarean Section[Other Term])) OR ((((((((((((((((((((((((Norepinephrine[MeSH Terms]) OR (Levonorepinephrine[Other Term])) OR (Noradrenaline[Other Term])) OR (Levarterenol[Other Term])) OR (Levophed[Other Term])) OR (Levophed Bitartrate[Other Term])) OR (Noradrénaline tartrate renaudin[Other Term])) OR (Norepinephrine Bitartrate[Other Term])) OR (Norepinephrine l-Tartrate (1:1[Other Term]))) OR (Noradrenaline Bitartrate[Other Term])) OR (Norepinephrine d-Tartrate (1:1[Other Term]))) OR (Norepinephrin d-Tartrate (1:1[Other Term]))) OR (Norepinephrine Hydrochloride[Other Term])) OR (Norepinephrine Hydrochloride, (+)-Isomer[Other Term])) OR (Norepinephrine Hydrochloride, (+,−)-Isomer[Other Term])) OR (Norepinephrine l-Tartrate (1:1), (+,−)-Isomer[Other Term])) OR (Norepinephrine l-Tartrate (1:1), Monohydrate[Other Term])) OR (Norepinephrine l-Tartrate (1:1), Monohydrate, (+)-Isomer[Other Term])) OR (Norepinephrine l-Tartrate (1:2[Other Term]))) OR (Norepinephrine l-Tartrate, (+)-Isomer[Other Term])) OR (Norepinephrine, (+)-Isomer[Other Term])) OR (Norepinephrine, (+,−)-Isomer[Other Term])) OR (Arterenol[Other Term])) OR (Levonor[Other Term]))) OR (((((((((((Phenylephrine[MeSH Terms]) OR ((R)-3-Hydroxy-alpha-((methylamino)methyl)benzenemethanol[Other Term])) OR (Metasympatol[Other Term])) OR (Mezaton[Other Term])) OR (Phenylephrine Hydrochloride[Other Term])) OR (Phenylephrine Tannate[Other Term])) OR (Tannate, Phenylephrine[Other Term])) OR (Metaoxedrin[Other Term])) OR (Neo-Synephrine[Other Term])) OR (Neo Synephrine[Other Term])) OR (Neosynephrine[Other Term]))) AND ((((Randomized Controlled Trials as Topic[MeSH Terms]) OR (Clinical Trials, Randomized[Other Term])) OR (Trials, Randomized Clinical[Other Term])) OR (Controlled Clinical Trials, Randomized[Other Term])) |



**Supplementary Fig. 1. Funnel plot for umbilical pH.** (A) Funnel plot for the umbilical artery pH. (B) Funnel plot for the umbilical venous pH. SE: standard error; MD: mean difference.



**Supplementary Fig. 2. Umbilical cord base excess.** (A) Forest lot for the UA base excess BE. (B) Forest lot for the UV base excess BE. CI: confidence interval; SD: standard error.



**Supplementary Fig. 3. Forest plot for the umbilical artery lactate.** CI: confidence interval; SD: standard error.



**Supplementary Fig. 4. Apgar scores.** (A) Forest plot for the Apgar scores in 1 minute and 5 minutes. (B) Forest plot for the Apgar scores less than 7 in 1 minute and 5 minutes. CI: confidence interval.

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**Supplementary Fig. 5. Funnel plot for the maternal hypotension.**

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**Supplementary Fig. 6. Forest plot for the subgroup analysis of maternal bradycardia.** CI: confidence interval.

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**Supplementary Fig. 7. Forest plot for the subgroup analysis of maternal nausea or vomitting.** CI: confidence interval.

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**Supplementary Fig. 8. Forest plot for the subgroup analysis of maternal reactive hypertension.** CI: confidence interval.