**Supplement Table 1A: Advanced maternal age and perinatal outcome in twins – Summary of search results**

|  |  |
| --- | --- |
| **Databases [Platform]** *Searches run March 1, 2018* | **Results** |
| EMBASE (NO MEDLINE)  | 755 |
| Ovid MEDLINE (R) 1946 to March Week 1, 2018 | 351 |
| Cochrane Central Register of Controlled Trials March 2018 [Ovid] | 0 |
| Web of Science (NO-MEDLINE) WOS OR SCILO OR KJD OR RSCI 516\* Web of Science Core Collection (1965-present) Science Citation Index Expanded (1965-present) Social Sciences Citation Index (1965-present) Arts & Humanities Citation Index (1975-present) Emerging Sources Citation Index (2015-present)\* KCI-Korean Journal Database (1980-present)\* Russian Science Citation Index (2005-present)\* SciELO Citation Index (1997-present) | 516 |
| **TOTAL** | **1,622** |

**Supplement Table 1B: EMBASE (NO MEDLINE), n= 755**

|  |
| --- |
| Search String: (('twin pregnancy'/de AND [embase]/lim) OR ('twins'/de AND [embase]/lim) OR ('twin gestation':ab,ti AND [embase]/lim) OR (('twin'/exp OR twin) AND pregnanc\*:ab,ti AND [embase]/lim) OR ('multifetal pregnancies':ab,ti AND [embase]/lim) OR ('carrying twins':ab,ti AND [embase]/lim) OR ('multiple gestations':ab,ti AND [embase]/lim) OR (('twin pregnancies':ab,ti OR 'twin pregnancy':ab,ti) AND [embase]/lim)) AND (('maternal age'/de AND [embase]/lim) OR ('pregnant woman'/de AND [embase]/lim) OR (('older women':ab,ti OR 'older woman':ab,ti) AND [embase]/lim) OR ('advanced maternal age':ab,ti AND [embase]/lim) OR (female:ab,ti AND 'aged 35-40':ab,ti AND [embase]/lim) OR ('older mothers':ab,ti AND [embase]/lim) OR (('women of advanced age':ab,ti OR 'woman of advanced age':ab,ti) AND [embase]/lim) OR ('aged uterus':ab,ti AND [embase]/lim)) AND (('perinatal outcome'/de AND [embase]/lim) OR (('pregnancy outcome'/de OR 'pregnancy outcomes'/de) AND [embase]/lim) OR ('neonatal outcome'/de AND [embase]/lim) OR ('maternal outcome'/de AND [embase]/lim) OR ('fetus outcome'/de AND [embase]/lim) OR ('perinatal outcom\*':ab,ti AND [embase]/lim) OR ('pregnancy outcom\*':ab,ti AND [embase]/lim) OR ('neonatal outcom\*':ab,ti AND [embase]/lim) OR ('maternal outcom\*':ab,ti AND [embase]/lim) OR ('obstetric outcom\*':ab,ti AND [embase]/lim) OR ('fetal outcom\*':ab,ti AND [embase]/lim))Search Query:#31 #9 AND #18 AND #30#30 #19 OR #20 OR #21 OR #22 OR #23 OR #24 OR #25 OR #26 OR #27 OR #28 OR #29#29 'fetal outcom\*':ab,ti AND [embase]/lim#28 'obstetric outcom\*':ab,ti AND [embase]/lim#27 'maternal outcom\*':ab,ti AND [embase]/lim#26 'neonatal outcom\*':ab,ti AND [embase]/lim#25 'pregnancy outcom\*':ab,ti AND [embase]/lim#24 'perinatal outcom\*':ab,ti AND [embase]/lim#23 'fetus outcome'/de AND [embase]/lim#22 'maternal outcome'/de AND [embase]/lim#21 'neonatal outcome'/de AND [embase]/lim#20 ('pregnancy outcome'/de OR 'pregnancy outcomes'/de) AND [embase]/lim#19 'perinatal outcome'/de AND [embase]/lim#18 #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17#17 'aged uterus':ab,ti AND [embase]/lim#16 ('women of advanced age':ab,ti OR 'woman of advanced age':ab,ti) AND [embase]/lim#15 'older mothers':ab,ti AND [embase]/lim#14 female:ab,ti AND 'aged 35-40':ab,ti AND [embase]/lim#13 'advanced maternal age':ab,ti AND [embase]/lim#12 ('older women':ab,ti OR 'older woman':ab,ti) AND [embase]/lim#11 'pregnant woman'/de AND [embase]/lim#10 'maternal age'/de AND [embase]/lim#9 #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8#8 ('twin pregnancies':ab,ti OR 'twin pregnancy':ab,ti) AND [embase]/lim#7 'multiple gestations':ab,ti AND [embase]/lim#6 'carrying twins':ab,ti AND [embase]/lim#5 'multifetal pregnancies':ab,ti AND [embase]/lim#4 ('twin'/exp OR twin) AND pregnanc\*:ab,ti AND [embase]/lim#3 'twin gestation':ab,ti AND [embase]/lim#2 'twins'/de AND [embase]/lim#1 'twin pregnancy'/de AND [embase]/lim |

**Supplement Table 1C: Ovid MEDLINE(R) 1946 to March Week 1, 2018, n=351**

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| --- |
| Search String:1. Pregnancy, Multiple/ 2. Pregnancy, Twin/ 3. Twin-gestation\*.tw. 4. Twin-pregnanc\*.tw. 5. (Twins and pregnanc\*).tw. 6. Multifetal-pregnanc\*.tw. 7. carrying-twins.tw. 8. Multiple-gestations.tw. 9. twins.tw. 10. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 11. Maternal Age/ 12. (Older-women or older-woman).tw. 13. Advanced-maternal-age.tw. 14. (Female and aged-35-40).tw. 15. Older-mothers.tw. 16. Women-of-advanced-age.tw. 17. Aged-uterus.tw. 18. 11 or 12 or 13 or 14 or 15 or 16 or 17 19. Pregnancy Outcome/ 20. Reproductive History/ 21. Perinatal-outcom\*.tw. 22. Pregnancy-outcom\*.tw. 23. Neonatal-outcom\*.tw. 24. Maternal-outcom\*.tw. 25. Obstetric-outcom\*.tw. 26. Fetal-outcom\*.tw. 27. 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 28. 10 and 18 and 27 |

**Supplement Table 1D: Web of Science (NO-MEDLINE) WOS OR SCILO OR KJD OR RSCI, n=516**

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| --- |
| Database1: WoS (NO-MEDLINE) WOS OR SCILO OR KJD OR RSCI , n=516\* Web of Science Core Collection (1965-present) Science Citation Index Expanded (1965-present) Social Sciences Citation Index (1965-present) Arts & Humanities Citation Index (1975-present) Emerging Sources Citation Index (2015-present)\* KCI-Korean Journal Database (1980-present)\* Russian Science Citation Index (2005-present)\* SciELO Citation Index (1997-present)*DocType=All document types; Language=All languages;* |
| Search String:#27 #24 AND #16 AND #9#26 #24 AND #16 AND #9 #25 #24 AND #16 AND #7 #24 #23 OR #22 OR #21 OR #20 OR #19 OR #18 OR #17 #23 TS="aged uterus" #22 TS="women of advanced age" #21 TS="older mothers" #20 TS=(female AND "aged 35-40") #19 TS="advanced maternal age" #18 TS="older women" #17 TS="maternal age" #16 #15 OR #14 OR #13 OR #12 OR #11 OR #10 #15 TS="fetal outcom\*" #14 TS="obstetric outcom\*" #13 TS="maternal outcom\*" #12 TS="neonatal outcom\*" #11 TS="pregnancy outcom\*" #10 TS="perinatal outcom\*" #9 #8 OR #7 #8 TS=twins #7 #6 OR #5 OR #4 OR #3 OR #2 OR #1 #6 TS="multiple gestations" #5 TS="carrying twins" #4 TS="multifetal pregnanc\*" #3 TS=(twins AND pregnancy) #2 TS="twin pregnanc\*" #1 TS="twin gestatio\*" |

**Supplement Figure 1: A Forest plot of the included studies reporting data on the birthweight at delivery.**

**Supplement Figure 2: A Forest plot of the included studies reporting data on the gestational age at delivery.**

**Supplement Figure 3: A Forest plot of the included studies reporting data on hypertension disorders (Pregnancy induced hypertension or preeclampsia).**

**Supplement Figure 4: A Forest plot of the included studies reporting data on small for gestational age.**

**Supplement Figure 5: A Forest plot of the included studies reporting data on birthweight < 2,500 g.**

**Supplement Figure 6: A Forest plot of the included studies reporting data on birthweight < 1,500 g.**

**Supplement Figure 7: A Forest plot of the included studies reporting data on admission to neonatal intensive care unit.**

**Supplement Figure 8: A Forest plot of the included studies reporting data on perinatal death.**

**Supplement Figure 9: Funnel plot assessment for publication bias for preterm delivery before 37 weeks' gestation at delivery.**

