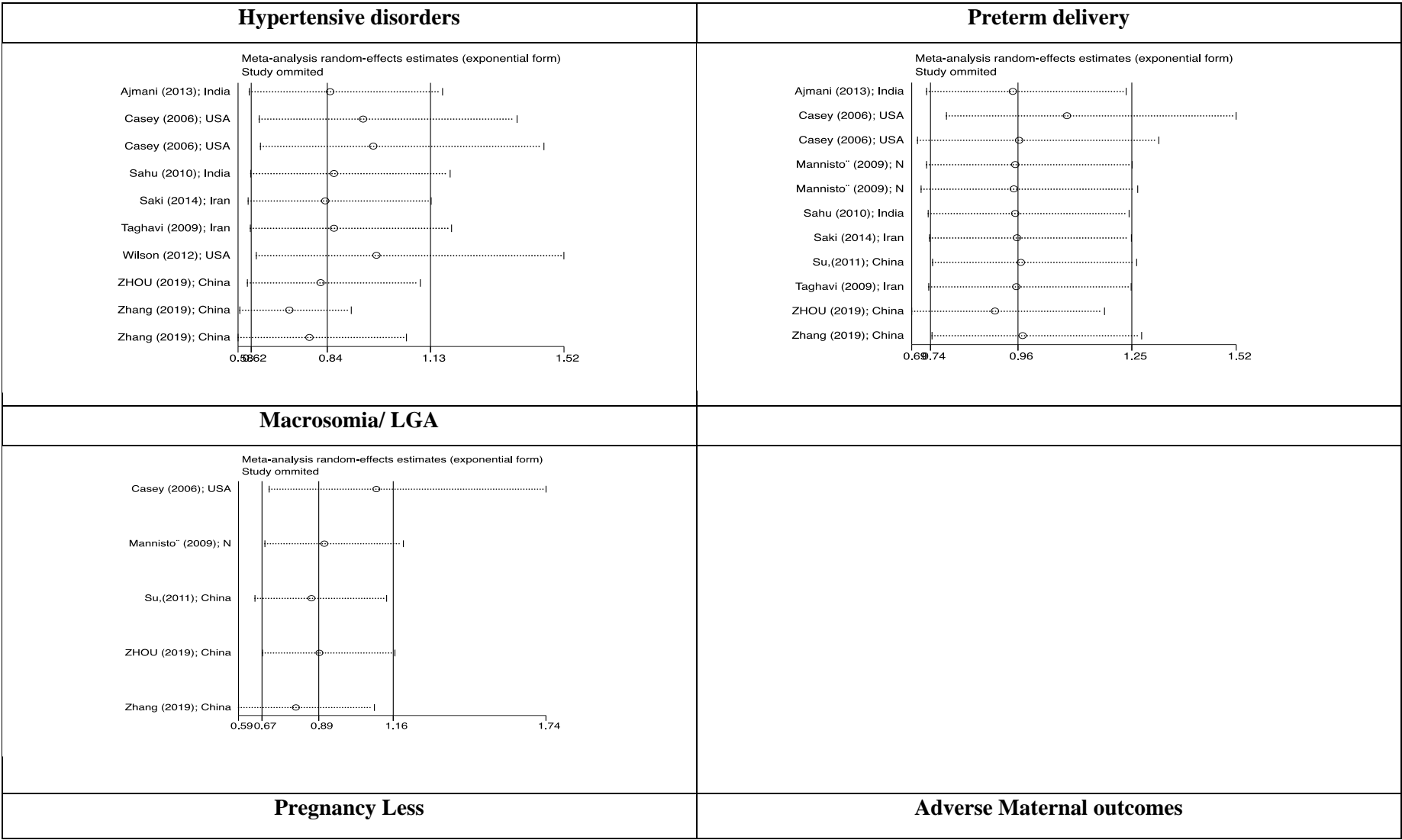


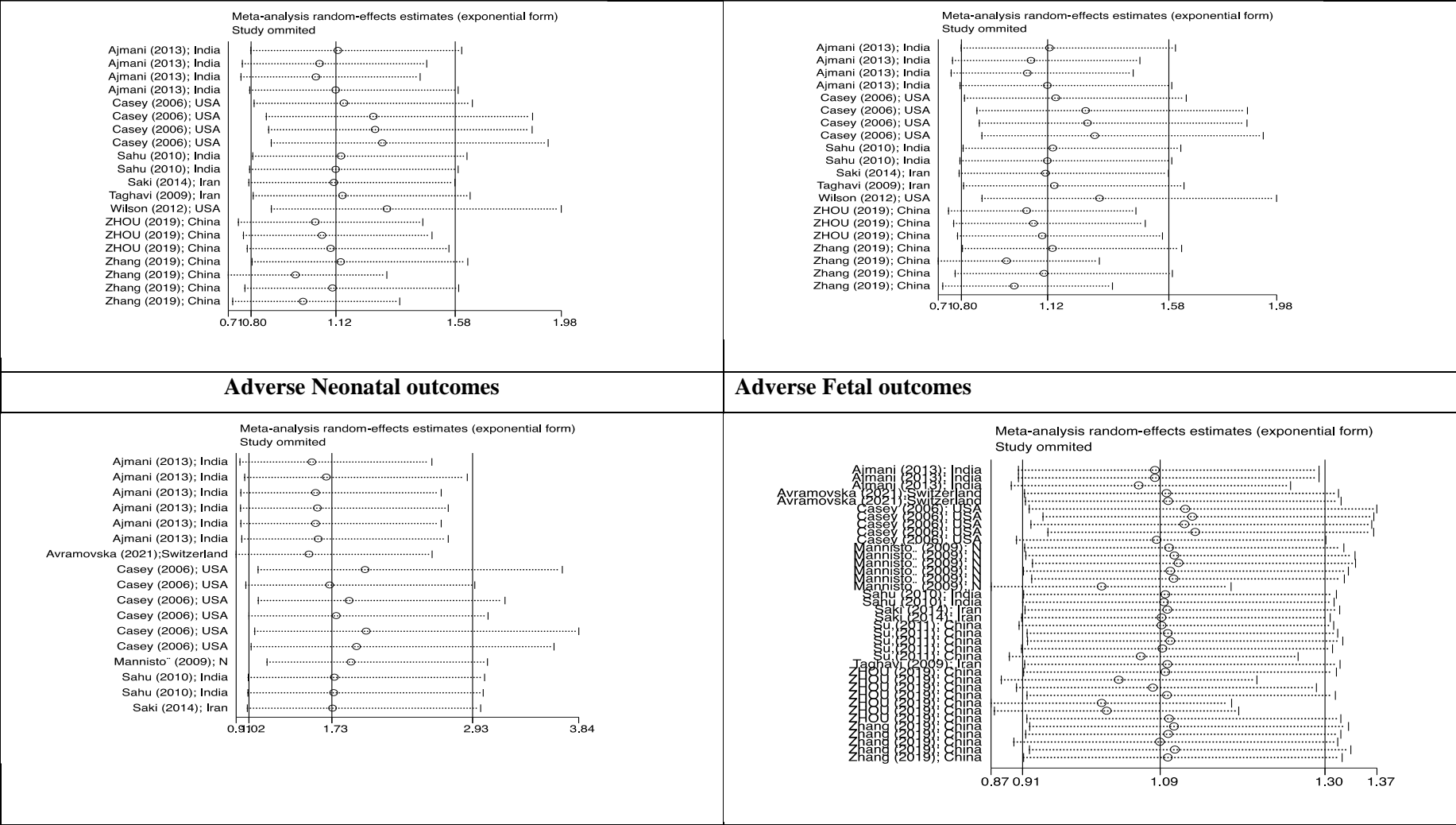
# **Supplementary File**

## Appendix 1. Search strategy.

Database	Search strategy
PubMed	<p>105 results:</p> <p>((("subclinical hyperthyroidism"[Title/Abstract] OR "subclinical thyroid dysfunction"[Title/Abstract] OR "subclinical thyroid disorder"[Title/Abstract])) AND ("pregnancy"[Title/Abstract] OR "pregnant women"[Title/Abstract] OR "maternal"[Title/Abstract] OR "gestational"[Title/Abstract])) AND ("adverse pregnancy outcomes"[Title/Abstract] OR "pregnancy outcomes"[Title/Abstract] OR "pregnancy complications"[Title/Abstract] OR "maternal outcome"[Title/Abstract] OR "perinatal outcome"[Title/Abstract] OR "neonatal outcome"[Title/Abstract] OR "infant outcome"[Title/Abstract] OR "abortion"[Title/Abstract] OR "miscarriage "[Title/Abstract] OR "pregnancy loss"[Title/Abstract] OR "fetal death"[Title/Abstract] OR "stillbirth"[Title/Abstract] OR "preeclampsia"[Title/Abstract] OR "gestational hypertension"[Title/Abstract] OR "PIH"[Title/Abstract] OR "gestational diabetes"[Title/Abstract] OR "hemorrhage"[Title/Abstract] OR "postpartum hemorrhage"[Title/Abstract] OR "PPH"[Title/Abstract] OR "Placenta abruption"[Title/Abstract] OR "placenta previa"[Title/Abstract] OR "preterm"[Title/Abstract] OR "premature rupture of membrane"[Title/Abstract] OR "PROM"[Title/Abstract] OR "Intra uterine growth restriction"[Title/Abstract] OR "IUGR"[Title/Abstract] OR "small for gestational age"[Title/Abstract] OR "Low birth weight"[Title/Abstract] OR "LBW"[Title/Abstract] OR "oligohydramnios"[Title/Abstract] OR "Apgar"[Title/Abstract] OR "fetal distress"[Title/Abstract] OR "neonatal distress"[Title/Abstract] OR "RDS"[Title/Abstract] OR "neonatal death"[Title/Abstract] OR "neonatal mortality"[Title/Abstract] OR "neonatal admission"[Title/Abstract] OR "NICU admission"[Title/Abstract] OR "malformation"[Title/Abstract] OR "anomalies"[Title/Abstract] OR "neonatal *" [Title/Abstract] OR "maternal *" [Title/Abstract] OR "fetal *" [Title/Abstract]))</p>
Scopus	<p>81 results</p> <p>( TITLE-ABS-KEY ( " subclinical hyperthyroidism " ) AND TITLE-ABS-KEY ( ( "pregnancy" OR "pregnant women" OR "maternal" OR "gestational" ) ) AND TITLE-ABS-KEY ( ( "adverse pregnancy outcomes" OR "pregnancy outcomes" OR "pregnancy complications" OR "perinatal outcome" OR "maternal outcome" OR "neonatal outcome" OR "infant outcome" ) ) )</p>
Web of Sciences	<p>Results: 14</p> <p><b>TOPIC:</b> (( " subclinical hyperthyroidism " ) AND ( "pregnancy" OR "pregnant women" OR "maternal" OR "gestational" ) AND ( "adverse pregnancy outcomes" OR "pregnancy outcomes" OR "pregnancy complications" OR "perinatal outcome" OR "maternal outcome" OR "neonatal outcome" OR "infant outcome" ))</p> <p><b>Timespan:</b> All years. <b>Indexes:</b> SCI-EXPANDED, SSCI, A&amp;HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI.</p>

Appendix 2: Sensitivity analysis





Appendix 2: Forest plots of Sensitivity analysis in adverse pregnancy outcomes

### Appendix 3. Quality assessment of included studies using the Newcastle-Ottawa Quality Assessment Form for Studies

Cohort Studies										
First Author (years)	SELECTION				COMPARABILITY	Outcome			Total scores	quality
	Representativeness of the exposed cohort	Selection of the non-exposed cohort	Ascertainment of exposure	Demonstration that outcome of interest was not present at start of study	Comparability of cohorts on the basis of the design or analysis controlled for confounders	Assessment of outcome	Was follow-up long enough for outcomes to occur	Adequacy of follow-up of cohorts		
Casey (2006)	1	1	1	1	1	1	1	1	8	Good
Mannisto" (2009)	1	1	1	1	2	1	1	1	9	Good
Taghavi (2009)	1	1	1	1	0	1	1	1	7	Fair
Sahu (2010)	1	1	1	1	0	1	1	1	7	Fair
Su (2011)	1	1	1	1	2	1	1	1	9	Good
Wilson (2012)	1	1	1	1	2	1	1	1	9	Good
Ajmani (2013)	1	1	1	1	0	1	1	1	7	Fair
Saki (2014)	1	1	1	1	2	1	1	1	9	Good
Zhang (2019)	1	1	1	1	0	1	1	1	7	Fair
ZHOU (2019)	1	1	1	1	0	1	1	1	7	Fair
Avramovska (2021)	1	1	1	1	0	1	1	1	7	Fair

**Good quality:** 3 or 4 stars in selection domain AND 1 or 2 stars in comparability domain AND 2 or 3 stars in outcome/exposure domain

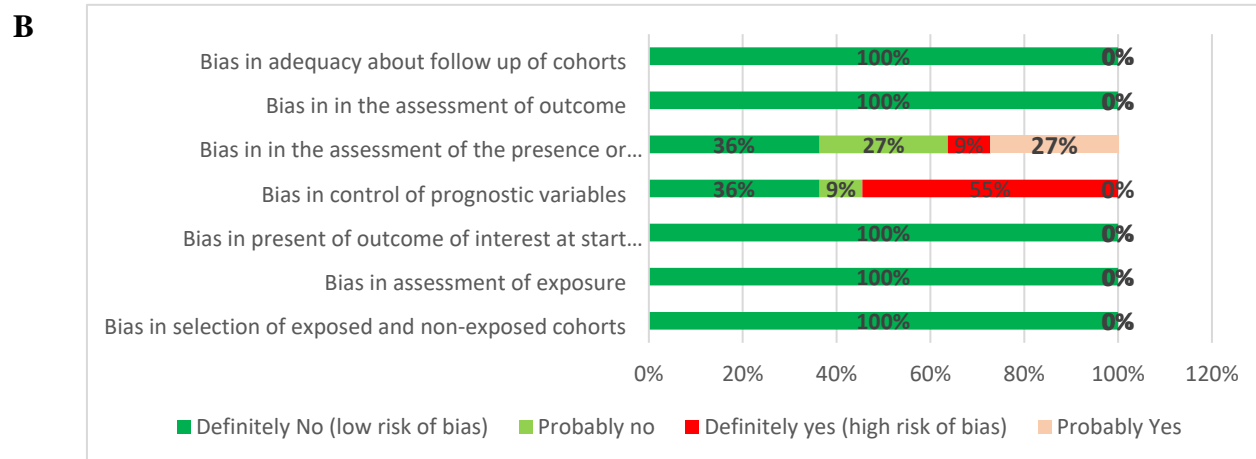
**Fair quality:** 2 stars in selection domain AND 1 or 2 stars in comparability domain AND 2 or 3 stars in outcome/exposure domain

**Poor quality:** 0 or 1 star in selection domain OR 0 stars in comparability domain OR 0 or 1 stars in outcome/exposure domain

**A**

type	Authors, years	Was selection of exposed and non-exposed cohorts drawn from the same population?	Can we be confident in the assessment of exposure?	Can we be confident that the outcome of interest was not present at start of study?	Did the study match exposed and unexposed for all variables that are associated with the outcome of interest or did the statistical analysis adjust for these prognostic variables?	Can we be confident in the assessment of the presence or absence of prognostic factors?	Can we be confident in the assessment of outcome?	Was the follow up of cohorts adequate?
Cohort	Casey (2006)							
	Mannisto" (2009)							
	Taghavi (2009)							
	Sahu (2010)							
	Su (2011)							
	Wilson (2012)							
	Ajmani (2013)							
	Saki (2014)							
	Zhang (2019)							
	ZHOu (2019)							
	Avramovska (2021)							

Definitely No (low risk of bias) 
 Probably no 
 Definitely yes (high risk of bias) 
 Probably Yes



**Appendix 4: Risk of bias in Cohort studies**