

Table S1. Use MeSH term and Emtree combined with Boolean operators.

PubMed
(Polycystic ovary syndrome) AND (Obesity, Maternal OR Obesity in Pregnancy OR Overweight OR Body Mass Index) AND (Miscarriage OR Spontaneous Abortion OR Fetal Demise OR Fetal Deaths OR Pregnancy-Induced Diabetes OR Gestational Diabetes Mellitus OR Pregnancy-induced hypertension OR Gestational Hypertension OR Pregnancy Transient Hypertension OR Preeclampsia OR Eclampsia OR Cesarean Sections OR Preterm Birth OR Premature Births OR Fetal Macrosomias OR Intrauterine Growth Restriction OR Fetal Growth Restriction)
EMBASE
(Polycystic ovary syndrome) AND (Maternal obesity OR body mass) AND (Spontaneous Abortion OR Fetal death OR Pregnancy diabetes mellitus OR Maternal hypertension OR Preeclampsia OR Eclampsia OR Cesarean Section OR Immature and premature labor OR Macrosomia OR Intrauterine Growth Retardation)
Web of science
(Polycystic ovary syndrome) AND (Maternal obesity OR body mass) AND (Spontaneous Abortion OR Fetal death OR Pregnancy diabetes mellitus OR Maternal hypertension OR Preeclampsia OR Eclampsia OR Cesarean Section OR Immature and premature labor OR Macrosomia OR Intrauterine Growth Retardation)
Cochrane database
(Polycystic ovary syndrome) AND (Maternal obesity OR body mass) AND (Spontaneous Abortion OR Fetal death OR Pregnancy diabetes mellitus OR Maternal hypertension OR Preeclampsia OR Eclampsia OR Cesarean Section OR Immature and premature labor OR Macrosomia OR Intrauterine Growth Retardation)

Table S2. Causes of infertility in the included studies.

Study [reference]	Causes of infertility
Hamilton-Fairley et al. [40].	PCOS + Exclude tubal factor, male factor
McCormick et al. [15].	PCOS + Exclude tubal factor, uterine factor
Ozgun et al. [19].	PCOS + Exclude infertility cause other than PCOS
Shalom-Paz et al. [13].	PCOS + Exclude oocyte cryopreservation and donation.
De Frène et al. [34].	PCOS + Exclude systemic disease imitate PCOS
Huang et al. [21].	PCOS + Exclude male factor, oocyte donation, endometriosis, metabolic disease
Bailey et al. [35].	PCOS + Exclude thyroid disease, prior chemotherapy and radiotherapy, uterine factor, chromosome factor, endometriosis, pelvic adhesion, pelvic inflammation, adenomyosis, submucosal myoma
Cui et al. [20].	PCOS only
Sheng et al. [12].	PCOS + Exclude systemic disease
Pan et al. [14].	PCOS + Exclude male factor, oocyte donation, endometriosis
Yang et al. [36].	PCOS + Exclude tubal factor, male factor, endometriosis, previous ovarian surgical history, systemic disease
Chen et al. [39].	PCOS + Exclude systemic disease imitate PCOS
Lin et al. [16].	PCOS only (26.6%), PCOS + male factor (12.1%), PCOS + tubal factor (50.2%), PCOS + male factor + tubal factor (7.3%), PCOS + other factor (3.8%)
Qiu et al. [18].	PCOS + Exclude gynecological cancer, systemic disease, chromosomal factor, uterine factor
Zhou et al. [17].	PCOS + Exclude tubal factor, uterine factor, endometriosis, previous uterine and ovary surgery, systemic disease
Guan et al. [38].	PCOS + Exclude tubal factor, male factor, pelvic inflammation, endometriosis