Supplementary Table S1. Quality assessment ratings for cohort and cross-sectional studies included in the systematic review in publication date order^a

Year	Author	Q1	Q2	Q3	Q4a	Q4b	Q5	Q6	Q7	Q8	Q9a	Q9b	Q10	Q11a	Q11b	Q12	Q13	Q14
		•	•		•	1	Temal	e ferti	ity ou	tcome		•				•	•	
1994	Florack	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
2007	Chavarro	Y	Y	NR	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y	NA	NR	Y
2008	Wellons	Y	Y	Y	Y	Y	N	N	Y	N	N	Y	N	N	Y	NA	NA	Y
2009	Gumundsdottir	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y	Y	NA	N	Y
2010	Revonta	Y	Y	NR	Y	Y	N	N	NR	N	N	Y	N	N	Y	NA	NA	N
2011	Burdorf	Y	Y	Y	Y	Y	N	N	Y	N	Y	Y	N	Y	Y	NA	NA	Y
2012	Wise	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	N	Y	Y	NA	Y	Y
2012	Mutsaerts	Y	Y	Y	Y	Y	N	N	Y	Y	Y	Y	N	Y	Y	NA	NA	Y
2012	Esmaeilzadeh	Y	Y	Y	Y	Y	Y	N	Y	N	Y	Y	N	Y	Y	NA	NA	Y
2013	Esmaeilzadeh	Y	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	N	Y	Y	NA	NA	Y
2015	Gaskins	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	N	Y	Y	NA	NR	Y
2015	Khosrorad	Y	Y	NR	Y	Y	Y	N	NR	Y	Y	Y	N	N	Y	NA	NA	N
2016	Cong	Y	Y	NR	Y	Y	NR	N	NA	Y	Y	Y	N	Y	Y	NA	NA	N
2016	McKinnon	Y	Y	Y	N	Y	N	Y	Y	Y	Y	Y	N	Y	Y	NR	N	Y
2018	Russo	Y	Y	Y	Y	Y	N	Y	Y	Y	Y	Y	N	Y	Y	NR	NA	Y
2019	Tabernero- Rico ^b	Y	Y	Y	N	Y	Y	N	N	Y	Y	Y	N	N	Y	NA	NA	Y
2020	Mena	Y	Y	Y	Y	Y	N	N	N	Y	Y	Y	Y	Y	Y	NA	NR	Y
2020	Lam	Y	Y	NR	Y	Y	Y	Y	Y	N	Y	Y	N	Y	Y	NA	Y	N
2020	Mirzaei	Y	Y	NR	Y	Y	N	N	N	Y	Y	Y	N	Y	Y	NA	NA	Y
2021	Shirazi	Y	Y	NR	Y	Y	N	N	N	N	Y	Y	N	Y	Y	NA	NA	Y
T	otal "Yes"	20	20	13	16	20	5	8	13	14	18	20	2	16	20	1	3	16
							Male	fertili	ty outo	come								
1988	Baker	Y	Y	NR	Y	Y	N	N	Y	N	Y	Y	N	Y	Y	NA	NA	N
2014	Hollingworth	Y	N	NR	Y	Y	N	N	Y	Y	Y	Y	N	Y	Y	NA	NA	Y
2020	Lam	Y	Y	NR	Y	Y	Y	Y	Y	N	Y	Y	N	Y	Y	NA	Y	N

Total "Yes" 3 2 0 3 3 1 1 3 3 3 0 3 3 0 1

^aQuality of included studies was assessed using the National Institutes of Health Study Quality Assessment Tool for Observational Cohort and Cross-Sectional Studies (http://www.nhlbi.nih.gov/health-pro/guidelines/in-develop/cardiovascular-risk-reduction/tools/cohort). Q1: Was the research question or objective in this paper clearly stated?; Q2: Was the study population clearly specified and defined?; Q3: Was the participation rate of eligible persons at least 50%?; Q4a: Were all subjects selected or recruited from the same or similar populations (including the same time period)?; Q4b: Were inclusion and exclusion criteria for being in the study prespecified and applied uniformly to all participants?; Q5: Was a sample size justification, power description, or variance and effect estimates provided?; Q6: Were the exposures of interest measured prior to the outcomes being measured?; Q7: Was the timeframe sufficient so that one could reasonably expect to see an association between the exposure and outcome if it existed?; Q8: For exposures that can vary in amount or level, did the study examine different levels of the exposure as it related to the outcome?; Q9a: Were the exposure measures clearly defined?; Q9b: Were the exposure measures implemented consistently across all study participants?; Q10: Was the exposure assessed more than once over time?; Q11a: Were the outcome measures clearly defined?; Q11b: Were the outcome measures implemented consistently across all study participants?; Q12: Were the outcome assessors blinded to the exposure status of participants?; Q13: Was loss to follow-up after baseline 20% or less?; Q14: Were potential confounding variables measured and adjusted statistically for their impact on the relationship between the exposure and outcome? Y, yes; N, No; NR, not reported; NA, not applicable.

^bStudy enrolled two groups of women into an observational study: a subfertile group referred after an infertility consultation and a pregnant group attending their first prenatal appointment. The authors described the study as a "prospective comparative study with two groups". We evaluated the quality based on the cohort study assessment.