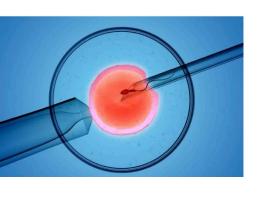
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## Impact of COVID-19 pandemic on the pregnancy outcomes of women undergoing assisted reproductive techniques (ARTs): a systematic review and meta-analysis

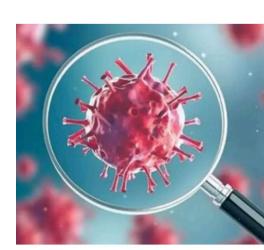
Key words: Systematic review; COVID-19; Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2); Assisted reproductive techniques (ART); Pregnancy outcomes; Meta-analysis.

## Research Summary

The objective of this review is to determine whether the COVID-19 pandemic had any adverse effects on the female fertility and pregnancy outcomes of women undergoing ART, and summarized the key results in the following aspects:



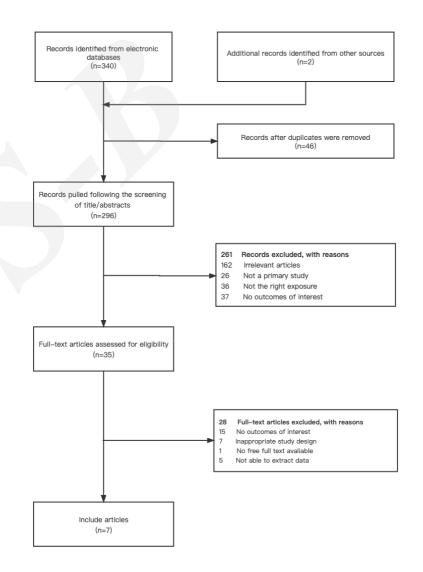
- Clinical outcomes
- Clinical pregnancy rate
- Miscarriage rate
- Laboratory outcomes
- Embryo cryopreservation rate
- Oocyte cryopreservation rate
- AMH levels
- Antral follicle count



## Strengths

• Summary of the most updated research progress about the effect of COVID-19 pandemic on female fertility and pregnancy outcomes undergoing assisted reproductive techniques (ART).

•Help the gynecologists to guide the management of women undergoing ART treatment during the COVID-19 pandemic timeframe.



## Strengths

A series of comprehensive tables were generated to summarize the quality of included studies and interested results.

Table 1 Risk of bias of the included studies

Table 2 Laboratory outcomes in pregnant women undergoing ART before and after COVID-19 pandemic

Table 3 Female fertility outcomes in women undergoing ART before and after the COVID-19 pandemic