

Gamete Alert

A Retrospective Cohort Study investigated about Impact of ICSI Timing on Cumulative Live Birth and Perinatal Outcomes

This retrospective cohort study investigated whether delaying intracytoplasmic sperm injection (ICSI) after ovulation trigger affects cumulative live birth and perinatal outcomes. The study included 1,969 ICSI cycles from 1,078 patients treated between 2017 and 2022, with ICSI performed between 37.1 and 46.8 hours after trigger. Patients were divided into four timing groups, and outcomes were adjusted for maternal age, BMI, infertility factor, sperm source, and number of oocytes injected. The results showed no significant differences in cumulative live birth rates or cumulative clinical pregnancy rates among the different ICSI timing groups. Similarly, delaying ICSI did not increase the risk of adverse neonatal outcomes, including preterm birth, low or high birth weight, or abnormal fetal growth. The authors concluded that delaying ICSI up to 46.8 hours after trigger is safe and provides greater flexibility in laboratory scheduling without compromising reproductive success or neonatal health, helping improve workflow in busy IVF laboratories.

Does ICSI timing impact cumulative live birth and perinatal outcomes - a cohort study

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