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Manuscript Title:

Increasing dominant follicular proportion negatively associated with good clinical outcomes in normal ovarian responders using the depot GnRH agonist protocol: a large-sample retrospective analysis

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Abstract:

Background: Currently, there is no universal criteria for the trigger time of controlled ovarian hyperstimulation (COH), especially with the emerging depot GnRH agonist protocol. It is challenging to explore an indicator that is representative of overall follicular population development as an alternative to the conventional approach of determining the trigger time based on a few leading follicles.

Methods: This was a large-sample retrospective analysis. Between January 2016 and January 2020, 1,925 young normal ovarian responders who underwent their first in vitro fertilisation (IVF)/intracytoplasmic sperm injection (ICSI) cycle using the depot GnRH agonist protocol were included. They were divided into three groups based on the dominant follicular proportion (DFP, defined as the ratio of ≥ 18 mm dominant follicles/ ≥ 14 mm large follicles on the human chorionic gonadotropin (HCG) day; Group A: $< 30\%$; Group B: $30\% \leq 60\%$; and Group C: $\geq 60\%$). A binary logistic regression and multivariate linear regression were used to assess whether the DFP was associated with clinical pregnancy, the...

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