

Comparison of Mixed vs. Non-Mixed Protocols for *in Vitro* Fertilization (IVF) in Patients Ages 35-42

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Objective: Compare commonly used IVF protocols and subsequent pregnancy rates.

Materials/Methods: A retrospective cohort study was conducted. Data examined included maternal demographics, oocytes retrieved, embryos transferred, pregnancy rates (positive fetal heart tones on ultrasound) and outcomes (live-birth), and incidence of ovarian hyperstimulation syndrome (OHSS).

Results: Of the 208 subjects analyzed, 99 used mixed and 109 used non-mixed protocol. The pregnancy rates with mixed protocol were significantly different, 43% versus 21% with non-mixed protocol ($p=0.0001$). Pregnancy outcomes were not different between groups, 77% versus 83% ($p=0.8$). However, there was a higher take-home baby rate in the mixed protocol group (33 versus 19). There was noted to be a higher incidence of OHSS with non-mixed protocol (3.7% vs. 0%, $p=0.014$).

Conclusions: Improved pregnancy and take-home baby rates were seen with mixed protocols.