

Prediction of pregnancy success rate through in vitro fertilization based on maternal age

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Abstrak

Tujuan Untuk mempelajari korelasi antara keberhasilan kehamilan teknik fertilisasi in vitro dengan umur istri. Metode Dilakukan penilaian kehamilan pada 8 pusat pelayanan fertilisasi in vitro di Indonesia: Rumah Sakit Anak dan Bersalin Harapan Kita sejak tahun 1997 sampai 2001, dan 7 pusat pelayanan fertilisasi in vitro di Indonesia. Induksi folikel dilakukan dengan long protocol, short protocol dan natural cycle. Inseminasi dilakukan di cawan petri dengan cara ICSI (intra cytoplasmic sperm injection). Pengambilan spermatozoa dilakukan dengan masturbasi, biopsi testis dan biopsi epididimis. Keberhasilan kehamilan dinilai dengan kehamilan kimiawi, adanya denyut jantung janin dan kelahiran bayi hidup (take home baby). Hasil Diperoleh hasil kehamilan 34% untuk kelompok umur dibawah 30 tahun, 33,75% untuk kelompok umur 31 sampai 35 tahun, 26% untuk kelompok umur 36 sampai 40 tahun dan 8% untuk kelompok umur diatas 40 tahun. Kesimpulan Semakin tinggi usia istri, semakin rendah tingkat kehamilan. Dengan kata lain, semakin tinggi usia istri, semakin tinggi tingkat keguguran.

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Abstract

Aim To evaluate the correlation between the success of pregnancy through in vitro fertilization and maternal age. Methods Assessment of pregnancy was performed in eight in vitro fertilization centers in Indonesia: Harapan Kita Pediatric and Obstetric Hospital from 1997 to 2001, and seven in vitro fertilization centers in Indonesia. Follicular induction was performed through the long protocol, short protocol and natural cycle. Insemination was performed through ICSI (intra cytoplasmic sperm injection) on petri dish. Spermatozoa were obtained through masturbation, testicular biopsy and epididimical biopsy. A successful pregnancy was indicated chemically, with the presence of fetal heart beat and the birth of a baby (take home baby). Results There was a 34% pregnancy rate for the age group below 30 years, 33.75% for those between 31 and 35 years olds, and 26% for the age group 36 to 40 years old, and 8% for the age group above 40 years. Conclusion The higher the maternal age, the lower pregnancy rate. In other words, the higher the maternal age, the higher the rate of miscarriage.