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Accuracy (Troubleshting) of Embryo Select of Based on Pronucleus Morphology on in Vitro Fertlization of Patients GnRH Agonist Compare to Gnrh Antagonist
Muhannmad Azlan Bin Mohd Amin, Dr. Djaswadi Dasuki, MPH, SpOG(K), PhD.; dr. Ita Tauzia Hanoum, MCE
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ABSTRACT

Background: One of the fundamental steps in in vitro fertilization program is superovulation protocol, where the patients undergo a controlled follicular stimulation to induce the growth of multiple follicular eggs before the retrieval of the oocytes could be done. There are many methods could be implemented in this process such as long protocol (LP) using GnRH agonist, short protocol (SP), using GnRH antagonist, or using CC. In this study, two regiments, LP and antagonist were observed primarily their effects on the embryo quality since these methods were mainly used in the field.

Objectives: The objective of this study is to compare the embryo quality of patients who undergo LP with those who undergo antagonist protocol, by evaluation of zygote morphology and simultaneously to determine whether these regiments have significant influence to the embryo quality.

Methods: The study was held in Permata Hati Infertility Clinic, Dr. Sardjito Hospital in Yogyakarta and the study population was the participants of the in vitro fertilization program from December 2003 to November

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2005, classified into different superovulation protocols. There are at least 14 samples of study. The method of the study is case-control study, and the evaluation of embryo quality was done by observation of the zygote and embryo morphology under an inverted microscope.

Results: Based on the odds ratio (OR) by using GnRH antagonist as comparison, an oocyte with LP is more likely to have 1,22 times good zygote morphology than oocyte with antagonist protocol but not statistically significant [CI(95%)=0,66 to 2,23]. The ordinal logistic regression showed that there was no association of zygote morphology and stimulation protocol to the indications, ART programs and patient's ages.

Conclusion: There is no statistical significance of embryo quality between those with LP and those with antagonist. Both stimulation protocols almost have the same probability to result a good quality embryo.

Keywords: stimulation, LP, antagonist, zygote, pronucleus