

P164. Evaluation of serumic progesterone`s level with pregnancy out come in frozen embryo transfer

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ABSTRACT TEXT

Introduction

in ovaries progesterone is synthesized from cholesterol in the granulosa cells`s mitochondria. ones free cholesterol has been transported to the mitochondria it is transported from the outer to the inner mitochondrial membrane by the steroidogenic acute regulatory protein. Cholesterol is catalyzed to pregnenolone then it is transferred to the cytoplasm and catalyzed to progesterone by 3 beta hydroxy streoid dehydrognase progesterone is an endogenous hormone secreted by ovaries. progesterone prepares uterine endometrium for implantation and by stimulation of endometrium glands delivers nutrient substances to fetus also suppresses uterine contractions. Some studies have shown no relationship between progesterone and pregnancy rate while others reported a reverse relationship. The aim of this study is evaluating progesterone level at transfer day of frozen embryo and pregnancy outcome

Objective

association between serumic progesterone level on transfer day and pregnancy out come in frozen embryo transfer`s day in Assisted reproductive technology

Methods

In this study 161 women were candidate for frozen embryo transfer. from the second day of the cycle they were treated with estradiol at a dose of 2 mg every 8 hours and on the 13th day of period the progesterone 5 mg (IM) ampoules were injected every 12 hours if the endometrium thickness was greater than 8mm. on the 4th day of progesterone administration embryo transfer was done and progesterone level was measured in patients and pregnancy outcome was evaluated

Discussion and Conclusions

161 women with a mean age of 30.82 ± 5.41 years were included in this study. the mean number of transmitted embryo was 2.63 ± 0.93

122 embryos were transferred on 17th day and 39 of them on 18th day. The mean progesterone level in 25 women with positive beta HCG was 26.26 ± 8.58 and 26.63 ± 8.22 on 17th day and 24.3 ± 11.48 on 18th day of transfer and in 136 non pregnant women it was 25.61 ± 16.01 and 29.03 ± 14.45 on 17th day and 15.42 ± 2.77 on 18th day. There was no relationship between serumic level of progesterone in transfer day and pregnancy outcome

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