Conference Abstract

Study of the outcome of IVF and pregnancy rates in immunological infertility patients following prednisolone and IVF treatments

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Received 08 February 2012; accepted 16 February 2012

Sperm bound antibodies interfere with sperm function and post-fertilization events. Cervical antisperm antibodies bind to the sperm cause sperm immobilization. Seminal plasma antisperm antibodies impair sperm motility as well as viability. The objective of the present work was to study the outcome of IVF and pregnancy rates in immunological infertile patients following prednisolone and IVF treatments. Micro agglutination test was used to determine positive antisperm antibodies in infertile men. The application of hamster sperm penetration assay (HSPA) in positive men with antisperm antibodies resulted in 48.7% (96/197) positive and 51.3% negative HSPA scores.

The positive HSPA patients were divided into control and treated groups. The treated group received 5 mg prednisolone for three months. The women had normal ovulatory cycles and reproductive and thyroid hormone concentrations. All patients were involved in IVF Program. The Beta-HCG and progesterone concentrations were assayed 12 to 14 days following embryo transfer to check pregnancy rate. The embryo implantation rate was examined by ultrasound five weeks after embryo transfer.

The sperm motility index and normal sperm morphology were significantly higher (P<0.01) in the treated group compared to control group. The in vitro fertilization rate was significantly higher (P<0.05) in the treated group compared to control group (70% vs. 60%). The pregnancy rate was significantly higher in the treated group than the control group (40% vs. 27%).

In conclusion, the application of prednisolone and IVF in immunological infertile men significantly improves in vitro fertilization and pregnancy rates.

References


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International Journal of Research in Zoology
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Source of support: Nil; Conflict of interest: None declared