

P-25 Asthenozoospermia 환자의 ICSI 시행시 Pentoxifylline을 사용한 정자처리법이 임상 결과에 미치는 영향

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Intracytoplasmic sperm injection (ICSI) is now widely used for male factor treatment in human IVF-ET program. Although poor sperm parameters including count, motility and morphology has been reported not important in ICSI program, sperm motility is an prerequisite indicator to find viable spermatozoa in the treatment of severe asthenozoospermia. It was shown that pentoxifylline (PF), being a phosphodiesterase inhibitor, increase sperm kinematic parameters and the number of spermatozoa exhibiting hyperactivated motility by raising the intracellular content of cAMP, a molecule involved in the generation of sperm energy. The study aim was to evaluate the effect of PF on the conventional ICSI program undergone in severe asthenozoospermia. Total 348 cycles of ICSI programs undertaken at CHA General Hospital from January, 1996 to September, 2000, were divided into two groups - injected with PF-treated sperm (PFT, 204 cycles) or non-treated sperm (NPFT, 144 cycles) and the clinical results of PFT group were compared with those of NPFT. PF-treatment on sperm increased their motility of normozoospermia and severe asthenozoospermia. Fertilization rate of PFT group was higher than those of ICSI programs undertaken using sperm of NPFT (69.7% vs. 62.9%, $p < 0.01$). And, ET and clinical pregnancy rates of PFT were slightly higher than those of NPFT (93.1%, 44.2% vs. 90.3%, 36.2%). These results showed that treatment of PF has a beneficial role on selection of viable sperm in severe asthenozoospermia.

P-26 Interactions of Rbm, a Male Infertility Protein, with hnRNP K and Tra2 α Suggest its Function in mRNA Processing during Spermatogenesis

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Objectives: A tight correlation between male infertility and microdeletions in Y chromosome revealed the presence of a group of male infertility genes in the deleted loci. However, functions and mechanisms of these genes on male infertility have not been clearly understood yet. To have an insight on biological functions of RBM, a male infertility gene in Y chromosome, we tried to identify proteins that interact with RBM.

Materials and Methods: Protein-protein interactions were investigated using the yeast two-hybrid interaction method.

Results: In a yeast two-hybrid system, Rbm appeared to interact with hnRNP K, whose functions are related to controlling splicing, transcription and signal transduction. In addition, we also observed a specific