

6시간과 8시간 전처리구에서는 수정 후 230분째에 전핵형성을 확인하였다. 본 실험 결과에서 소의 정자가 체외에서 수정능력획득과 난자 내 침입에 소요되는 최소 시간은 260분과 50분이었고, 침입 후 전핵형성에 소요되는 시간은 최소 230분이었다.

P-21 Influence of Semen Processing Technique on Human Sperm DNA Integrity

마리아 기초의학연구소/마리아 생명공학연구소, ¹마리아 병원

신현아 · 김은영 · 박세영 · 이금실 · 박세필 · 임진호¹

Objective: This study was to compare the effects of washing, swim-up and density-gradient centrifugation technique on human sperm DNA integrity.

Materials and Methods: Semen sample (n=16) were obtained from consecutive non-azoospermic men presenting for infertility (n=10) and fertility evaluation (n=6). Individual samples were divided into three aliquots (washing sperm, swim-up and density-gradient centrifugation) for analysis of DNA integrity. The DNA of the fixed sperm was stained with 0.2 mg/ml of Acridine Orange and DNA integrity was evaluated by fluorescence microscope using 460~470 nm emission filter. Sperm DNA integrity assessed as green color is double stranded DNA and red one is single stranded DNA (denatured form).

Results: In total semen sample, the mean percentage of sperm with denatured DNA was tend to increase after processing with swim-up (30.8%) and density-gradient centrifugation (35.2%) compared with washing sperm (25.5%). Also, when the result was examined on fertile evaluation, denatured DNA percentage of infertile group (35.3%, 47.0% & 20.6%) was more increased by semen processing technique than that of fertile group (24.2%, 40.8% & 17.9%).

Conclusions: Our data indicated the potential detrimental effect of density-gradient centrifugation on sperm DNA integrity. Also, the mean percentage of denatured DNA was higher in the infertile group than fertile group.

P-22 Telomeric Probes for Preimplantation Genetic Diagnosis of Structural Abberations in Human ART Program

서울대학교 의과대학 산부인과학교실¹, 의학연구원 인구의학연구소²

오선경^{1,2} · 김희선² · 성기창² · 설혜원² · 노미경² · 천대우^{1,2} · 천은경¹
서창석^{1,2} · 김석현^{1,2} · 최영민^{1,2} · 김정구¹ · 문신용^{1,2} · 이진용¹

목 적: 반복된 자연유산을 경험했던 translocation carrier 부부와 임신에 실패했던 부부를 대상으로 blastomere를 biopsy 하여 telomeric probes를 이용한 착상 전 유전진단을 시행하여 염색체로 인한 기형이 초래되지 않도록 본 연구를 시행하였다.

대상 및 방법: 부인의 핵형이 46,XX, t(9;14) (p22;q31) 이어서 2회의 자연유산과 multiple anomaly가