

P0438

Production of Kittens from Non-Surgical Intrauterine Insemination of Frozen Epididymis Semen in Cat

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This study was carried out to evaluate the possibility of production of kittens by a non-surgical intrauterine insemination (NIUI) or intra-vaginal insemination (IVI) with the Norwegian catheter and using a frozen epididymal sperm (FES). Semen was collected epididymal sperm and frozen in Tris-buffered with 50×10^6 /ml. The motility and progressive motility of FES was approximately $40.3 \pm 5.8\%$ and $35.9 \pm 6.5\%$ after thawing. Fifty IU PMSG was administrated to induce estrus 6 days in advance artificial insemination. Five of 16 animals were delivery of 31.3% by NIUI using 50×10^6 sperm per AI, and born total 20 kittens from 5 female. However, 1 of 10 animals was delivery of 10% by IVI using same FES concentration, and born total 3 kittens. Sex ratio of kittens produced in both insemination methods was almost 50 vs. 50 as female vs. male kittens. The results were shown that NIUI method with FES is more effective than that of IVI method.

Key words: *Cat, Frozen epididymal sperm, Non-surgical Intrauterine insemination*