

FOLLICLE DEVELOPMENT AFTER GONADOTROPHS TREATMENT IN GARUT SHEEP FOR LAPAROSCOPIC OVUM PICK UP

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Abstract

Laparoscopy ovum pick up (LOPU) as non invasive method can be used to collect oocytes from live donor with minimum injury. However, to increase number of collected oocytes it is important to stimulate the ovary prior the puncture to increase the number of appearance follicles. An experiment was carried out to observe the effect of gonadotrophin treatment on the follicle development in Garut sheep breed. Animals were divided into three groups according to the treatment and laparoscopic time as follow : Groups A: Laparoscopy was conducted once a week combined with PMSG treatment , Group B: Laparoscopy was conducted once in two weeks combined with PMSG treatment and Groups C as a control group, laparoscopy was conducted once in two weeks on animals without Gonadotrophin treatment. Gonadotrophin treatment on Groups A and B was applied 48h before LOPU by administration 1500 IV Pregnant Mare Serum Gonadotrophin (PMSG- Intervet, Holland). Assessment was performed based on the number of appearance follicles. Result of the experiment indicated that number of follicles were higher in the groups after gonadotrophin treatment than control groups. However, no significant differences in the number of follicle formed in both treatment groups. It is concluded that oocytes collection from live donor in Garut sheep can be done weekly.

Key words: *Laparoscopy, oocyte, follicles, gonadotrophin*

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