

**THE EFFECTIVITY OF GnRH THERAPHY ON OVARIAN
HIPOFUNCTION TOWARDS ONSET OF ESTROUS
AND PREGNANCY IN DAIRY CATTLE**

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ABSTRACT

Ovarian hypofunction is a condition of the follicles in the ovary can not develop due to lack of feed. It can affect the pituitary anterior so the production of FSH and LH was low. GnRH can stimulate the pituitary anterior to produced FSH and LH. This study was aim to prove that GnRH injection in dairy cows that had ovarian hypofunction can initiate estrous and can caused pregnancy. This study used 12 dairy cows with BCS ≥ 2.75 with clinical sign anestrus due to ovarian hypofunction. All dairy cattle samples were divided into two treatments, P1 using GnRH at dose of 100 μg intramuscularly and P2 using GnRH at dose of 300 μg intramuscularly. The results were analyzed using an independent t test and Chi-Square test. Analysis used independent t test stated between P1 (74.17 ± 4.7) and P2 (53.83 ± 8.1) showed that the time of estrous was significantly different ($p < 0.05$). While the analysis with Chi-Square in all treatments showed pregnancy (100%). The conclusion of this study was GnRH injection can initiate estrous and can caused pregnancy.

Keyword: *Dairy Cattle, Ovarian Hypofunction, GnRH, Pregnancy, Onset of Estrous*