

## ABSTRACT

Key Words : Kintamani dogs  
Biology profile  
Induction of estrus

A study was conducted to determine the biology profile of Kintamani dogs and develop a regimen of treatment for inducing estrus and ovulation in the bitch.

The biology profile collected from dogs originating from Sukawana subdistrict, Bangli Regency, The Province of Bali, were examined by observation to dog owners. A quasi experiment and true experiment was performed to observe the effect of hormonal like substance and hormonal treatment on reproduction performance of Kintamani bitches.

The biology profile of Kintamani dogs are small to medium size. The dogs stand tall at the withers, bitches  $44,65 \pm 2,15$  cm, dogs  $51,25 \pm 4,3$  cm. The weight of dogs, 15,  $90 \pm 1,49$  kg and bitches  $13,14 \pm 2,47$  kg. The head is straight. The nostrils have a black color. The ears are erect and triangular shape. The eyes are light brown to yellow and ovate in outline and are somewhat obliquely oriented. The tail is sickle shaped. The coat is thick, bantly wavy and long at withers, tail and thigh. The colour are white or black. The personality of Kintamani dogs are bold, easily to trained and not aggressive.

In this study indicate that dogs as a group, estrus cycle throughout the year and slightly increased seasonal activity during the March. The bitches exhibit their first heat average  $7,5 \pm 0,66$  months of age. The length of time from the onset of proestrus to the time of first breeding is usually 9 to 13 days, with an average of  $10 \pm 0,13$  days. The duration of estrus is usually 9 to 13 days, with an average of  $10 \pm 1,46$  days. The duration of diestrus is 52 to 72 days, with an average of  $61,50 \pm 5,15$  days. Like the other phases of estrus cycle, anestrus varies in length. The duration of anestrus is 105 to 140 days with an average of  $124,28 \pm 7,01$  days. The length of gestation in Kintamani dogs was  $63 \pm 0,13$  days, with variation of 60 to 65 days, with a mean litter size of  $4,1 \pm 1,02$ .

In the experimental study it was found that in experiment C a significant increase of progesterone and showed estrus while there were no significant change in the experiment A, B and C. This result indicate that estrus and ovulation can be induced in the anestrus bitch by injection of PMSG and HCG