

## عنوان مقاله:

Simultaneously administration of cabergoline and PMSG reduces the duration of estrus induction in anestrus bitches

## محل انتشار:

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## خلاصه مقاله:

This study designed a protocol that would combine pregnant mare serum gonadotrophin (PMSG) and cabergoline (CAB) to induce estrus in bitches. Twenty clinically healthy adult and anestrus female dogs were randomly assigned into four groups. The first group was treated with  $5.00 \mu\text{g kg}^{-1}$  CAB until the onset of proestrus or for 25 days. The second group was treated with  $20.00 \text{ IU kg}^{-1}$  PMSG for 5 days and  $500 \text{ IU}$  human chorionic gonadotropin (hCG) on the 5th day. The third group was treated with  $5.00 \mu\text{g kg}^{-1}$  CAB for 10 days in combination with  $20.00 \text{ IU kg}^{-1}$  PMSG for 5 days and  $500 \text{ IU}$  hCG on the 10th day. The control group received  $1.00 \text{ mL}$  of normal saline. Ovarian changes were evaluated ultrasonographically, and the estrus cycle phase was examined by vaginal cytology. Respectively, three, three and four bitches showed clinical signs of proestrus in each treatment group. The intervals between treatment and proestrus for each group were  $30.00 \pm 3.05$ ,  $7.67 \pm 1.20$  and  $13.00 \pm 1.20$  days, respectively. Two weeks after estrus, the progesterone mean was  $14.51 \pm 6.24$ ,  $19.96 \pm 17.16$  and  $19.12 \pm 9.26 \text{ ng mL}^{-1}$  for each group, respectively. In ultrasonography examination, the largest follicle was identified at  $15.66 \pm 1.33$ ,  $11.66 \pm 2.40$  and  $8.75 \pm 2.17$  days after the onset of proestrus and the largest follicle's size was measured  $6.50 \pm 0.55$ ,  $4.83 \pm 1.64$  and  $7.07 \pm 1.49 \text{ mm}$  for each group, respectively. Although the combined use of CAB and PMSG reduced the duration of treatment, alteration of the duration or PMSG dosage can be helpful to improve the results.

## کلمات کلیدی:

Bitches, Cabergoline, Estrus induction, PMSG, Ultrasonography

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