

EFFECT OF PROSTAGLANDIN F₂ , PREGNANT MARE SERUM GONADOTROPIN, AND A COMBINATION OF PREGNANT MARE SERUM GONADOTROPIN AND HUMAN CHORIONIC GONADOTROPIN ON PREGNANCY RATES AND LITTER SIZE OF MICE (*Mus musculus*)

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ABSTRACT

Superovulation is an effort to increase the amount of ovulation in a cycle by the injection of gonadotropin hormones in the female animal's body where the animals were injected with FSH and PMSG preparation or a combination of PMSG and hCG. The aim of this research is to know the effect of PGF₂ , PMSG, and a combination of PMSG and hCG on pregnancy rates and litter size of mice (*Mus musculus*). Twenty four mice used in this research were divided into 3 groups, respectively received 0.55 mg PGF₂ , 5 IU PMSG, and 5 IU PMSG in combination with 2.5 IU hCG injected intraperitoneally. After treatment the mice were kept together with male mice for 5 days. Anova showed no difference ($p > 0.05$) on pregnancy rates and litter size of mice.

Key words: PGF₂ , PMSG, hCG, pregnancy rates, litter size