

**THE COMPARISON BETWEEN INJECTION RESPONSE OF
GONADOTROPIN AND PROSTAGLANDIN F_{2α}
TO CONCEPTION RATE AND LITTER SIZE
OF MICE (*Mus musculus*)**

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ABSTRACT

The aim of this research is to compare the response of Gonadotropin and Prostaglandin F_{2α} (PGF_{2α}) to conception rate and Litter size of mice. This method used 18 female mice and 6 male mice and divided into two treatments. Nine mice were injected with combination of Pregnant Mare Serum Gonadotropin (PMSG) and Human Chorionic Gonadotropin (hCG) as Gonadotropin hormone and 9 mice were injected with PGF_{2α} then mated with males. The results of research showed conception rate 100% from 18 mice. The results of litter size showed 60 mice with an average of 6.67 for the first treatment and 55 mice with an average of 6.11 for the second treatment. In conclusion, there was no different response between injection of Gonadotropin and PGF_{2α} to conception rate and litter size of mice.

Key words: Pregnant Mare Serum Gonadotropin, Human Chorionic Gonadotropin, Prostaglandin F_{2α}, Conception rate, Litter size