THE EFFECT OF EXTRACT EGGPLANT (*Solanum melongena* L.) TO MALE MICE (*Mus musculus*) ON PREGNANCY RATE AND LITTER SIZE OF MICE

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ABSTRACT

This research was conducted to determine the effect of extracts eggplant (*Solanum melongena* L.) to male mice (*Mus musculus*) on pregnancy rate of female mice. Solasodin and flavonoid active compound consisted in eggplant (*Solanum melongena* L.) is a substance that serve as antifertility. The active substance which influencing the testosterone development. Those active content work through inhibition of mechanism LH/ICSH secretion then testosterone obstruction. The experimental animals used are 24 male mices and 24 female mices with 20-30 gram average body weight. The treatments were divided into four groups and each got six repetitions. (P0) as a control was treated with CMC Na 0,5% without eggplant (*Solanum melongena* L.) extract. The doses of the extract used 58 mg/kg BW (P1), 74 mg/kg BW (P2) and 79 mg/kg BW (P3). Each treatment was given per-orally with dose 0,5 ml/mice/day along 54 days. The experiment design used in this study was completely random design (CRD). The data were analyzed using *Chi Square Test* to determine the pregnancy rate. The results showed that the pregnancy rate did not show significant differences but seen their percentage decrease along with increased doses of eggplant extracts.

Key words : eggplant, male mice, pregnancy rate.