

THE EFFECT OF EXTRACT OF MAHKOTA DEWA PULP (*Phaleria macrocarpa*) PERORAL TOWARD THE PERCENTAGE OF CAPACITATION AND ACROSOME REACTION IN WHITE RAT (*Rattus norvegicus*)

Dhanang Estu Bagyo

ABSTRACT

This research was conducted to found out the influence of the pulp of mahkota dewa's extract (*Phaleria macrocarpa*) against the percentage of capacitation and acrosome reaction of male white rat (*Rattus norvegicus*). The experimental animals used are 20 male white rats with average weight 200 g were divided into four groups. P0 as control given a solution of CMC Na 0.5% without the mahkota dewa (*Phaleria macrocarpa*). P1, P2 and P3 were given extracts of pulp of the mahkota dewa with successive doses of plundering of 7.5 mg/200 grBB 15 mg/200 grBB and 30 mg/200 grBB respectively and given peroral 1 ml/head/day for 14 days. The research used Completely Randomized Design and analyzed by ANOVA (Analisis of Variance) then continued use duncan test with a significance 0.05. The results showed that the extract fruit the mahkota dewa gave significant impacted on capacitation and acrsome reaction white rat. P2 showed the highest mean with $30,00 \pm 4,24$ for capacitation and $5,60 \pm 0,89$ for acrosome reaction.

Key Words: Reactive Oxygent Species (ROS), acrosome reaction, capacitation, mahkota dewa