

THE LEVEL OF ALKALINE PHOSPHATASE ON RATS (*Rattus norvegicus*) POST OVARIECTOMY GIVEN CIKAL TULANG EXTRACTS (*Cissus quadrangularis*)

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ABSTRACT

This aim of the study was to determine the effect of *Cikal Tulang*, which also known as Bone Setter (*Cissus quadrangularis*) Extracts administered in White Rats (*Rattus norvegicus*) model of Ovariectomy. The parameters measured in this study was phosphatase alkaline (ALP) level. Experimental animals in this study was 20 female Wistar rats (*Rattus norvegicus*), which were randomly divided into five treatment groups. Five randomized treatment groups include, P0 was the control white rats which it were not done ovariectomy; P1 was the white rat models of ovariectomy + 0.5% CMC Na; P2 was white rats model of ovariectomy + calcium carbonate of 450 mg / kg body weight + 0.5%CMC Na; P3 was white rats model of ovariectomy + *Cikal Tulang* (*Cissus quadrangularis*) Extracts of 500 mg / kg body weight + 0.5% CMC Na; P4 was white rats model of ovariectomy + *Cikal Tulang* (*Cissus quadrangularis*) Extracts of 750 mg / kg body weight + 0.5% CMC Na. The research design used in this study was completely randomized design (CRD) with five treatments and four replications. The differences between treatment groups were evaluated using ANOVA, followed by Duncan's Multiple Range Test. The results showed that there were not significant difference ($p > 0.05$) between phosphatase alkaline (ALP) levels in white rats (*Rattus norvegicus*). The conclusion of this study indicated that *Cikal Tulang* (*Cissus quadrangularis*) Extracts in white rats model of ovariectomy can maintain by alkaline phosphatase (ALP) levels at normal level. It seems that the extracts of *Cikal Tulang* (*Cissus quadrangularis*) can prevent from osteoporosis.

Keywords: *Cissus quadrangularis*, Alkaline Phosphatase, ovariectomy, osteoporosis