

**THE EFFECT OF DAYAK ONION TUBER EXTRACT (*Eleutherine palmifolia*) AGAINST KIDNEY HISTOPATHOLOGICAL APPEARANCE OF ALBINO MILE RAT STRAIN WISTAR WHICH WAS INDUCED BY ALLOXAN**

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ABSTRACT

The purpose of this study was to know the effect of Dayak onion tuber extract (*Eleutherine palmifolia*) given by per oral in lowering levels of histopathology damage kidney of albino male rat (*Rattus norvegicus*) strain Wistar which was induced by alloxan. Animals which were used in this research were 24 white male rats (*Rattus norvegicus*) strain Wistar, and then divided into 6 groups. The negative control group K (-) were given with aquabidest and CMC-Na 1% during the therapy period, the positive control group K (+) were given with alloxan 110 mg / kgbw, the group of drug control K (O) were given with alloxan and oral therapy with metformin 9 mg / 200g bw / day, the treatment group 1 (P1) were given with alloxan and per oral therapy with extract of Dayak onion tuber 100 mg / kgbw, the treatment group 2 (P2) were given with alloxan and per oral therapy with extract of Dayak onion tuber 200 mg / kgbw and the treatment group 3 (P3) were given with alloxan and per oral therapy with extract of Dayak onion tuber 400 mg / kgbw. The therapy was given for 14 days, then the animals were sacrificed with ketamine and then its kidney was taken for examination of hisphatology in kidney. Observations based on their depiction of renal histopathology degeneration and tubular necrosis, glomerular necrosis, interstitial infiltration and glomerular sclerosis. Data obtained from the scoring of histopathological appearance white rat kidneys were analyzed by test *Kruskal-Wallis* and if there is a real difference followed by *Mann-Whitney* test using SPSS 20.0 for windows. The results showed that the extract of Dayak onion tuber 400 mg/ kgbw can reduce the degree of kidney damage in white male rat exposed to alloxan significantly.

**Keyword:** *Eleutherine palmifolia*, alloxan, kidney, histopathology