

Uji kadar kreatinin plasma tikus putih rattus norvegicus I jantan galur sprague dawley setelah pemberian infusa daun sukun artocarpus altilis = Plasma creatinine levels test of male albino sprague dawley rats rattus norvegicus I after breadfruit leaf artocarpus altilis infusion intake

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Abstrak

[ABSTRAK

Telah dilakukan penelitian untuk mengetahui kadar kreatinin plasma tikus putih (*Rattus norvegicus* L.) jantan galur Sprague-Dawley setelah pemberian infusa daun sukun (*Artocarpus altilis*). Sebanyak 30 ekor tikus dibagi menjadi 6 kelompok, yaitu 2 kelompok kontrol dan 4 kelompok perlakuan yang diinduksi CCl₄ kemudian diberikan infusa daun sukun dengan dosis 1,35; 2,7; 5,4; dan 10,8 g/kg BB. Uji kualitatif pada infusa daun sukun menunjukkan bahwa infusa daun sukun memiliki aktivitas antioksidan serta mengandung senyawa alkaloid dan flavonoid. Infusa diberikan sebanyak empat kali dengan selang waktu 12 jam. Pengambilan darah dilakukan sebanyak tiga kali, yaitu sebelum perlakuan, 12 jam setelah induksi CCl₄, dan satu jam setelah pemberian infusa terakhir. Analisis sampel darah dilakukan menggunakan metode kolorimetri. Induksi CCl₄ berhasil meningkatkan kadar kreatinin plasma tikus di atas batas normal. Rerata kadar kreatinin plasma tikus setelah pemberian infusa terakhir yaitu KK1 (0,80 0,11); KK2 (1,44 0,21); KP1 (1,12 0,42); KP2 (0,76 0,40); KP3 (0,56 0,06); dan KP4 (0,76 0,17). Uji LSD (P<0,05) menunjukkan bahwa terdapat perbedaan bermakna antara KK2 dengan KK1, KP2, KP3, dan KP4. Hal tersebut menunjukkan bahwa pemberian infusa daun sukun dengan dosis 2,7; 5,4; dan 10,8 g/kg BB berpengaruh terhadap kadar kreatinin plasma tikus.

ABSTRACT

The present study was aim to assess plasma creatinine levels of male albino Sprague-Dawley rats (*Rattus norvegicus* L.) after breadfruit leaf (*Artocarpus altilis*) infusion intake. Thirty male rats were devided into six groups, consisting of two control group and four treatment groups CCl₄-induced and were given breadfruit leaves infusion at concentration dose of 1,35; 2,7; 5,4; and 10,8 g/kg body weight, respectively. Qualitative test of breadfruit leaves infusion showed that it has antioxidant activity and positively contains alkaloid and flavonoid. Breadfruit leaves infusion were given orally and administered four times, with an interval of twelve hours. Plasma creatinine levels were measured three times, before treatment; 12 hours after CCl₄-induced; and 1 hour after the last breadfruit infusion intake using colorimetric method. Plasma creatinine levels was elevated above the upper limits of normal after CCl₄-induced. Mean of plasma kreatinine levels of the last analysis: KK1 (0,80 0,11); KK2 (1,44 0,21); KP1 (1,12 0,42); KP2 (0,76 0,40); KP3 (0,56 0,06); and KP4 (0,76 0,17) mg/dl. Least significant diffrence (LSD) test (P<0,05) showed a significant effect of breadfruit leaves infusion at dose of 2,7; 5,4; and 10,8 g/kg bw on plasma creatinine levels of rats.

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