

ABSTRAK

Penelitian ini dilakukan untuk mengetahui efek ekstrak air rimpang temu putih terhadap gambaran histopatologi pada ginjal tikus putih jantan yang mengalami toksisitas akibat induksi cisplatin.

Hewan coba yang dipakai adalah tikus putih jantan galur Sprague – Dawley sebanyak 30 ekor yang dibagi dalam 5 kelompok, yaitu kelompok normal, kelompok kontrol dan tiga kelompok uji. Kelompok normal (P0) hanya diberi aquadest secukupnya selama 14 hari, kelompok kontrol (P1), kelompok uji 1 (P2), uji 2 (P3), uji 3 (P4) diinduksi dengan cisplatin dosis tunggal 5mg/kgBB secara intraperitoneal kemudian langsung diberi larutan uji ekstrak air rimpang temu putih (*Curcuma zedoaria* (Berg.) Roscoe) dalam konsentrasi yang berbeda – beda, sesuai variasi dosis, peroral satu kali sehari selama 14 hari, kecuali kelompok kontrol, setelah diinduksi dengan cisplatin kemudian hanya diberi aquadest 1ml/100gBB selama 14 hari.

Pada akhir penelitian semua hewan uji dibedah dan dibuat preparat histopatologi ginjalnya. Perubahan – perubahan yang tampak pada gambaran histopatologi ginjal tikus putih jantan dicatat lalu diskor dan diolah dengan penilaian peringkat (Rank). Hasilnya dianalisis dengan uji statistik nonparametrik dengan menggunakan Uji Kruskal – Wallis. Apabila terdapat perbedaan yang nyata diantara kelompok perlakuan dilanjutkan dengan Uji Perbandingan Berganda (Uji Z) 5 %.

ABSTRACT

This research was accomplished to find out effects of water extract of (*Curcuma zedoaria* (Berg.) Roscoe) on histopathology description on male white rat kidneys get suffered from toxicity due to cisplatin induction.

The applied test animals are male white rats of Sprague - Dawley furrow as many as 30 animals that divided into five groups namely a normal group, a control group and three test groups. Normal group (P0) is only provided with aquadest adequately for 14 days, control group (P1), groups of test 1 (P2), test 2 (P3), test 3 (P4) were induced with single dose cisplatin of 5mg/kgBB intraperitoneal, then directly provided with test solution of water extract of (*Curcuma zedoaria* (Berg.) Roscoe) in differentiated concentration, in accordance with dose variances, orally once a day for 14 days, except control group, after being induced with cisplatin then only provided with aquadest at 1ml /100gBB for fourteen days.

At the end of the research, all of test animals were surgically operated and their renal histopathology praeparatus was made. The apparent changes on renal histopathology description of male white rats were recorded then scored and processed by means of Ranking. The results were analyzed with non parametric statistical test by means of Kruskal - Wallis test. If there are real differences between treatment groups, they were continued with Multy Comparison Test (Z Test) 5%.