

Pengaruh pemberian Infus Serai Wangi (*Cymbopogon nardus* (L.) Rendle.) terhadap Histologi Ginjal Mencit (*Mus musculus* L.) Jantan Galur DDY = Effect of Citronella Grass (*Cymbopogon nardus* (L.) Rendle.) infusion on Renal Histology of DDY Strain Male Mice (*Mus musculus* L.)

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Abstrak

Penelitian dilakukan untuk mengetahui pengaruh pemberian infus serai wangi (*Cymbopogon nardus* (L.) Rendle.) terhadap gambaran histologi ginjal mencit (*Mus musculus* L.) jantan galur DDY. Sebanyak 28 ekor mencit dibagi secara acak dalam 4 kelompok yang terdiri atas satu kelompok kontrol (KK) dan tiga kelompok perlakuan (KP1, KP2, dan KP3). Kelompok kontrol diberi akuades dan kelompok perlakuan diberi infus serai wangi dengan dosis 2%, 4%, dan 8% (b/v). Masing-masing kelompok perlakuan terdiri atas 7 ekor mencit. Pemberian bahan uji dilakukan selama 5 hari berturut-turut secara oral. Mencit dikorbankan 2 jam setelah pemberian infus terakhir. Organ ginjal diamati secara makroskopik dan mikroskopik. Sediaan histologi diwarnai dengan pewarnaan Hematoksilin Eosin (HE) dan diamati dengan menggunakan mikroskop. Hasil uji statistik menunjukkan bahwa pemberian infus serai wangi pada dosis 2% dan 4% (b/v) tidak berpengaruh terhadap rata-rata diameter kapsula Bowman, glomerulus, jarak ruang Bowman, serta berat basah organ ginjal, sedangkan pada dosis 8% (b/v) terlihat pengaruh yang nyata terhadap diameter kapsula Bowman dan glomerulus, namun tidak berpengaruh terhadap jarak ruang Bowman.

.....This research was designed to study the effect of citronella grass (*Cymbopogon nardus* (L.) Rendle.) infusion on renal histology of DDY male mice (*Mus musculus* L.). The animals were randomly divided into four groups, consisted of one control group (KK) and three treatment groups (KP1, KP2, and KP3). Control group were given distilled water and the other groups were given doses of citronella grass infusion 2%, 4%, and 8% (w/v) . Each group consisted of 7 mice. The test materials were administered for 5 consecutive days orally. The mice were sacrificed at two hours after the last infusion. Kidneys were observed in macroscopic and microscopic. Histology slides stained with Haematoxyline Eosin (HE) and observed with microscope. Statistic study showed that there was no effect of citronella grass infusion at dose of 2% and 4% (w/v) against the average diameter of Bowman's capsula, glomeruli, diameter of Bowman's space, and kidneys weight, but there was a significant effect on the average diameter of Bowman's capsula and glomeruli at a dose of 8% (w/v).