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Efek Hepatoprotektor Ekstrak Daun Dandang Gendis (*Clinacanthus nutans*) terhadap Kadar SGPT Tikus Putih (*Rattus novergicus*) yang Diinduksi Parasetamol

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Abstract


Background: Paracetamol was a safe drug, but would cause oxidative stress if taken too much.. Dandang gendis leaves contained a flavonoid antioxidant. This research intended to prove the antioxidant effect of dandang gendis leaves that could prevent liver cell damage of white rat induced by paracetamol.

Methods: This research was an experimental laboratoric with post test only control group design. This research had taken place at Parasitology and Micology Faculty of Medicine Sebelas Maret University Surakarta. The sample was 32 Wistar white rats. The dependent variable was the SGPT level of white rats and the independent variable was the dandang gendis leaves extract. The white rats were divided into 4 groups: negative control group (KK₀), positive control group (KK₁), first threated group (KP₁), and second threated group (KP₂). KP₁ had been given 30 mg/200 gr BB dose and KP₂ had been given 60 mg/200 gr BB dose for 14 days. At 11th – 13th days, the white rats from KK₁, KP₁, and KP₂ had been given 291.6 mg/200 gr BB dose of paracetamol. At 14th day, rat's blood had been taken from orbitalis sinus. The damage of the liver cell had been measured with SGPT laboratory test. The data had been analyzed with one way ANOVA test then with post hoc test ($\alpha = 0.05$).

Results: The highest rate of SGPT levels was KK₁, following KP₁, KP₂, and the lowest was KK₀. Oneway ANOVA test results showed a significant difference among the four groups with $p = 0.000$. Post hoc test results showed a significant difference between KK₀ – KK₁ ($p = 0.003$) and KK₀ – KP₂ ($p = 0.019$) whereas between KK₀ – KP₁ ($p = 0.204$), KK₁ – KP₁ ($p = 0.885$), KK₁ – KP₂ ($p = 0.077$), and KP₁ – KP₂ ($p = 0.932$) had no significant difference.

Conclusion: Giving dandang gendis leaves extract was not significant to raise the SGPT level of white rat induced by paracetamol. Raising dandang gendis leaves extract doses was not significant to raise its hepatoprotector effect.

Keywords: dandang gendis leaf, SGPT, white rat, hepatoprotector, paracetamol

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