

## Efek analgetik getah jarak pagar (*J. curcas*) dalam mengatasi nyeri akut

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### Abstrak

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Reducing pain is the first phase of treatment in dentistry. Pain can be reduced by application of peroral analgetic medicines such as paracetamol, although on certain circumstances such as pulpitis pain, this is less helpful. Eugenol is often used to alleviate acute pulpitis pain by dentists, while latex of *Jatropha curcas* is one of the most popular analgetic agent used by people. The objective of this study was to compare the analgetic effect of the latex of *J. curcas* with paracetamol by the hot plate test. Thirty male mice aged 2-3 months old, weight 20-30 grams were divided into 5 groups. The lyophilized latex of *J. curcas* was diluted into 5, 10, and 15 % respectively, and the dose was 5 mg/Kg BW. The dose of paracetamol (positive control) was 1,3 mg/Kg BW and sterile aquabidest (negative control) was 1,3 mg/Kg BW. All agents were administered orally. Analgetic activity was evaluated after 3, 6, and 24 hours. The test was considered positive if the latent time of the test group was equal or 3 times higher than the control group. Data was analyzed by 1 way Anova. Had it been a difference, research would be continued using HSD test ( $p < 0,05$ ). Latex of *J. curcas* has the same analgetic effect as paracetamol on 3 and 6 hours observation, but was reduced on 24 hours observation.