

AKTIVITAS KONTRASEPSI DAN INTERSEPSI  
EKSTRAK METANOL DAUN BENALU  
(*Dendrophthoe petandra* L) PADA MENCIT

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ABSTRACT

*It had been reported that leaf of **Dendrophthoe petandra** contained a flavonol glycoside of which quercetin was its aglycone.*

*In-vitro study on the activity of quercetin indicated that quercetin inhibited the activity of sperm hyaluronidase. So it meant quercetin inhibited sperm penetration into cumulus.*

*Other study proved that quercetin inhibited the activity of cytochrome P-450 III A 4 enzyme which catalyzed the reversible hydroxylation of estradiol-17 $\beta$  into estrone and further into estriol. The elevation of estradiol serum level disturbed gamete and zygote transport in oviduct causing premature expulsion of zygote into uterus.*

*This research was designed to provide information about the anti-fertility activity of methanolic extract of leaf of **Dendrophthoe petandra**, focused on its contraceptive and interceptive activity. Virgin female Balb-C mice were used as the test animals. Each study had two groups of mice which were treated with 150mg/30g and 200mg/30g extract respectively. Control group were treated with respective vehicle at 1ml/30g. Statistical analysis of data ( $p < 0,05$ ) concluded that the extract had contraceptive and interceptive activity. According to the criterion given by Lee and Chi (1985), this methanolic extract had A priority for further study.*

**Key words:** *Dendrophthoe petandra*; contraceptive; interceptive; antifertility.