

ABSTRAK

Aliwarga, Randy. 2016. PengaruhEkstrakDaunWaru (*Hibiscus tiliaceus*) terhadapJumlahLeukositpadaSediaanHistopatologiLambungTikusPutih (*Rattusnorvegicus*) strain Wistar yang diinduksiindometasin. Tugasakhir, Program StudiPendidikanDokterFakultasKedokteranUniversitasBrawijaya. Pembimbing: (1) dr. Elly Mayangsari, M.Biomed (2) dr. KentyWantri Anita, M.Kes, SpPA

Daunwaru (*Hibiscus tiliaceus*) secaratradisionaldigunakanolehsukuMinahasasebagaiherbaradang. Berbagaipenelitiansebelumnyatelahmenunjukkanekstrakdaridaunwarutinggiakanantioksidan, sertamemilikisifat anti-inflamasi, anti-tumor dananalgesik. Penelitianinibersifateksperimentaldanbertujuanuntukmengetahuiapakahekstrakdaunwarudapat mengurangiresponsinflamasi di jaringanlambungdenganmenggunakanmetodeinduksiindometasinsebagaipengertusresponinflam asi. Hewancobadipilihsecaraacakdandikelompokkankedalam 5 kelompok, dimanasetiapkelompokterdiridari 5 hewancoba; kontrolpositif, kontrolnegatif, dan 3 dosisekstrakdaunwaru: 100 mg/kgBB, 200 mg/kgBB, dan 400 mg/kgBB. Variabel yang dipilihadalahjumlahleukositpadasediaanhistopatologijaringanmukosalambung. Denganhasil ($p = 0.000$), penelitianinimembuktikanadanyapenurunanjumlahleukositdan juga hubunganantaradosispadapemberianekstrakdaunwarupadasediaanhistopatologilambungtikusputih strain Wistar yang diinduksiindometasin.

Kata kunci: *Hibiscus tiliaceus*, tikusWistar, gastritis, jumlahleukosit



ABSTRACT

Aliwarga, Randy. 2016. **Effect of Cottonwood (*Hibiscus tiliaceus*) leaf extract on leucocyte count ofgastric mucosa histopathological slide from White Wistar Rat (*Rattusnorvegicus*) induced with indomethacin.** Final project, Bachelor of Medicine Study Program, Faculty of Medicine of University of Brawijaya. Tutor: (1) dr. Elly Mayangsari, M.Biomed (2) dr. KentyWantri Anita, M.Kes, SpPA

Hibiscus tiliaceus leaf is used traditionally by Minahasa tribe of Indonesia for its anti-inflammatory herb effect. Many previous research has demonstrated that *Hibiscus tiliaceus* extract is antioxidant-rich and has anti-inflammatory effect, anti-tumor and analgesic. This research is purely experimental and done to find out whether *Hibiscus tiliaceus* extract can diminish inflammation response in gastric mucosa that has been previously administered indomethacin. Subjects will be randomized and divided as 5 groups: negative control, positive control and 3 *Hibiscus tiliaceus* leaf extract, each in 100, 200 and 400 mg/kg weight. Parameter chosen is leucocyte count in the histopatological slide from the gastric mucosa. With results of $\alpha = 0.000$, this research proved that there is reduced number of leucocyte alongside with dose-relationship in *Hibiscus tiliaceus* extract in gastric mucosal histopathological slide of white rat (*Rattusnorvegicus*) strain Wistar which has been induced with indomethacin previously.

Keywords: *Hibiscus tiliaceus*, Wistar rat, gastritis, leucocyte count

