JUMLAH MAKROFAG DAN SEL HETEROFIL PADA MEMBRAN KORIO ALANTOIS TELUR AYAM BEREMBRIOS SETELAH PEMBERIAN EKSTRAK Gynura procumbens DAN INDIKSI bFGF

YUSENI KUSUMA PRANANEGERA
(Retno Bijanti, drh., MS.)
KKC KK 104 11 Pra j

ABSTRACT

Antiangiogenic (inhibition of new blood vessels formation) has become a strategy to inhibit cancer development. The aim of this experiment to investigate antiangiogenic effect of Gynura procumbens undergo descent the number of macrophages and heterophil cells that used chick embryo chorioallantoic membrane. Eggs at the age of nine days were divided into six groups (every group has eight eggs). Group I (positive control), eggs were given with bFGF and Tris HCl. Group II (negative control), eggs were given with DMSO and Tris HCl. Group III (treatment I), eggs were given bFGF 60 ng and ethanolic extract of Gynura procumbens with dose 60 $\mu$g. Group IV (treatment II), group V (treatment III), and group VI (treatment IV) were given same like first treatment, but the dose of every treatment were increased, get started from 75 $\mu$g, 90 $\mu$g, and the last 110 $\mu$g. Eggs were incubated until age of twelve days to observe macrophages and to observe heterophil cells, eggs were incubated until age of seventeen days. Based on haematoxylin-eosin staining, macrophages in the treatment group was less than the control positive group (bFGF+Tris HCl), but on giemsa staining, the effect of Gynura procumbens undergo descent heterophil cells could not known surely because some blood smears could not read well. These analysis suggest that the ethanolic extract of Gynura procumbens can perform as antiangiogenic agent undergo descent the number of macrophages.

Key words: antiangiogenic, macrophages, heterophil cells, Gynura procumbens