ABSTRACT

THE INFLUENCE OF ORAL ADMINISTRATION OF GUAVA FRUIT JUICE (*Psidium guajava* L.) FROM THE RUBY GUAVA, SWEET GUAVA AND BANGKOK GUAVA CULTIVAR, TO AMOUNT MEGAKARYOCYTES AT MICE.

Guava (*Psidium guajava* L.) is believed to be able to raise levels of trombocyte in blood. The aim of this research is to know and prove whether administrated oral of guava fruit juice can improve the amount of megakaryocytes on mice.

Mice were divided into six groups that is ruby guava group, sweet guava group, Bangkok guava group, quercetin group, gallic acid group and negative control group. Mice given the guava juice daily in six days. On day seven, all mice were killed to be taken its thighbone (femur) and made its bone marrow smear, later then the megakaryocytes were counts of per set of wide look from every group.

The result of this research indicated that the guava fruit (*Psidium guajava* L.) from the ruby guava cultivar, sweet guava cultivar and Bangkok guava cultivar, can improve the amounts of megakaryocyte at mice so that it can serve the purpose as alternative medication for dengue haemorrhagic fever.

Keywords : guava fruit (*Psidium guajava* L.); bone marrow smear; megakaryocytes.