ABSTRACT

EFEKTIVITAS KONSENTRASI INFUSA RIMPANG KENCUR *(KAEMPFERIA GALANGA L.)* TERHADAP PERTUMBUHAN KOLONI *CANDIDA ALBICANS*

EFFECTIVENESS OF THE RHIZOMES OF SAND GINGER (KAEMPFERIA GALANGA L.) INFUSIONS CONCENTRATION TOWARD THE GROWTH OF CANDIDA ALBICANS COLONIES

Background. *Increased prevalence of Candida albicans in denture users causing denture stomatitis, especially for the patient with poor oral hygiene. The alternative method is by soaking denture in cleansing solution. Kaempferia galanga L., is one of those precious medicinal herbs of Zingiberaceas that are still included in un-utilized herbs in spite of the variety of useful pharmacological properties it possesses. Infusions of Kaempferia galanga L. have antimicrobial effect to inhibit the growth of Candida albicans colonies, which can be an alternative as denture cleanser for denture users.* ***Purpose.*** *The aim of this study was to find the effective concentration of Kaempferia Galanga L. infusions concentration in inhibiting the growth of Candida albicans colonies.* ***Method.*** *This research was laboratory experimental study. This experiment has tested the antifungal effect of the rhizomes of Kaempferia Galanga L. infusions to Candida albicans in Sabouroud Dextrose Agar plate, in some concentrations (40%, 30% and 20%). All units of experiment were examined by accounting the number of Candida albicans colonies after testing by the rhizomes of Kaempferia Galanga L. infusions.* ***Result.*** *There were significant differences ($p<0,05$) of antifungal effect of the rhizomes of Kaempferia Galanga L. infusions. The result was analyzed descriptively with Minimal Inhibitory Concentration (MIC).* ***Conclusion.*** *The effect of the rhizomes of Kaempferia Galanga L. infusions are able to inhibit the growth of Candida albicans in removable denture users, by the lowest concentration 30%.*

Keywords: Kaempferia Galanga L., Candida albicans, removable denture.