DAYA ANTIFUNGAL INFUSA BIJI AVOKAD (*Persea americana* M.)

TERHADAP PERTUMBUHAN *Candida albicans* SECARA *IN VITRO*

(PENELITIAN EKSPERIMENTAL LABORATORIS)

ANTIFUNGAL EFFECT OF AVOCADO SEED (*Persea americana* M.)

INFUSION TOWARDS THE GROWTH OF *Candida albicans* (IN VITRO

STUDY)

(EXPERIMENTAL LABORATORY RESEARCH)

ABSTRACT

Background. *Oral Candidiasis is commonly found in HIV/AIDS patient, which mostly caused by infection of Candida albicans. Candida albicans is one of oral normal flora. People who have immunocompromised condition, microorganisms such as Candida albicans can easily infect and colonize in oral epithelium. Meanwhile, the resistance rate of antifungal agent increase rapidly, triggering researchers and clinicians to find the alternative medication such as herbal medicine particulary for fungal infection. Nowadays avocado production rates are high in Indonesia. People usually use avocado pulp only instead of its seed. Avocado seed is a natural ingredient which has many benefits, one of them is antifungal effect.* **Purpose.** *The aim of this study was to find the effective concentration (MIC and MFC) of avocado seed infusion towards the growth of C. albicans with in vitro study.* **Method.** *This research was done with the used of C. albicans colony culture from the oral pseudomembranous candidiasis in patient with HIV/AIDS. The inoculums was incubated in Sabouraud broth liquid to let the C. albicans grow. Avocado seed infusion was diluted in different concentration: 100%, 50%, 25%, 12,5%, 6,25%, 3,125%, 1,56%, 0,78%. Inoculums were dipped in avocado seed infusion and put on the Sabouraud dextrose agar media. After 24 hours, colony of C. albicans would be counted.* **Results.** *On the concentration 100%, 50%, 25%, 12,5%, 6,25%, 3,125%, 1,56%, 0,78% showed a growth of C. albicans colonies.* **Conclusion.** *Avocado seed infusion do not have antifungal effect towards the growth of C. albicans.*

Keywords: *Persea americana M., Oral Candiasis, HIV/AIDS, Candida albicans*