

**DAYA ANTIFUNGAL INFUSA BIJI AVOKAD (*PERSEA AMERICANA*)
TERHADAP PERTUMBUHAN JAMUR *CANDIDA TROPICALIS* SECARA IN
VITRO**

***ANTIFUNGAL EFFECT OF AVOCADO SEED (*PERSEA AMERICANA*)
INFUSION TOWARDS THE GROWTH OF *CANDIDA TROPICALIS* IN VITRO***

ABSTRACT

Background. Oral candidiasis is an infection that occur oftenly in HIV patient. Most of the cases are caused by *Candida albicans*. There are some of non *Candida albicans* spesies that can caused Oral Candidiasis such as *Candida tropicalis*. There is an increase in *Candida tropicalis* infection in immunocompromised patient. Some study show that *Candida tropicalis* is more virulent than *Candida albicans*. Avocado seed is a plant that very easy to be found. It is proven to have so many medicinal effect such as antifungal effect. **Purpose.** The aim of this study was to find the exact concentration (MIC and MFC) of Avocado (*Persea Americana*) towards the growth of *Candida tropicalis* **Method.** This research is a true experimental research. *Candida tropicalis* inoculum taken from HIV patient with Oral candidiasis then incubated in Sabouraud broth liquid to let the *Candida tropicalis* growth. Dry Avocado seed powder made into infusion liquid diluted for 8 times to get concentration from 100% until 0,78%. The inoculum then dipped into avocado seed infusion and put on the sabouraud dextrose agar media, after 24 hours the colony would be counted. **Result.** There was growth of *Candida tropicalis* colony in every concentration, started from the lowest concentration, 0,78% until the highest concentration, 100%. **Conclusion** Infusion method is not effective on avocado seed. It is shown that avocado seed infusion does not have any antifungal effect on *Candida tropicalis* due to the growth of *Candida tropicalis* colony in every infusion concentration started from 100% concentration until 0,78% concentration.

Keywords: Persea americana infusion, Candida tropicalis, Oral candidiasis